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May 23, 1997

U. S. Army Environmental Center (USAEC) Building E4480

Aberdeen Proving Ground, Maryland 21010

Attention:

SFIM-AEC-BCA/Dr. Charles A. Lechner

Reference:

Letter Report Summarizing Disposal Methods for Drummed Soil Cuttings, Wa

and Field Generated Waste

Supplementary Remedial Investigation/Feasibility (RI/FS) of Umatilla Depot Activity (UMDA), Hermiston, Oregon Contract No. DAAA15-90-D-0015, Delivery Order No. 10

Dear Dr. Lechner:

This letter documents the final disposition and disposal methods for drummed soil cuttings, water, grout, and miscellaneous field waste generated during the Supplementary RI/FS field programs at UMDA, including the follow-up fieldwork at existing RI/FS study sites, Supplementary RI, underground storage tank (UST) investigation, follow-up fieldwork at Site 4, evaporation pond refurbishing, and basalt well abandonment.

### 1.0 OBJECTIVE AND SCOPE

During Dames & Moore's Supplementary RI/FS field programs at UMDA, all soil cuttings, water, and grout generated as a result of drilling, monitoring well construction, and basalt well abandonment were containerized in 55-gallon drums. Drummed wastes, as well as miscellaneous field waste (e.g., poly pipe, pumps, etc.), were stored in three warehouses (Buildings 411, 412, and 413) until appropriate disposal methods were determined.

When possible, chemical analysis results from samples collected during drilling and groundwater sampling were evaluated to classify drum contents as hazardous or non-hazardous for disposal purposes. In some cases, however, it was not possible to associate environmental sample results with drummed material (e.g., soil samples were not collected during monitoring well installation). In these cases, samples from the drums were collected and analyzed. A list of analytes is provided in Attachment A, along with a copy of all analytical results. Based on analytical results

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and discussions with Mr. Mark Daugherty of UMDA and Dr. Charles Lechner of USAEC, the appropriate disposal methods for hazardous drums, non-hazardous drums, and miscellaneous field waste were determined, as discussed in detail below.

### 2.0 OFF-POST DRUM DISPOSAL

Based on the chemical analyses and recommendations submitted in previous waste disposal reports dated January 24, 1995 and February 1, 1995, 434 drums were determined to require off-post disposal as hazardous waste (see Attachment B). Based on contaminants and the disposal method, Philip Environmental, Inc. (Philip), the waste disposal firm, grouped these drums into four profiles, designated UMAD-4, UMAD-6, UMAD-16, and UMAD-27. In addition to the analyses mentioned in Section 1.0, Philip also collected and analyzed profile samples required to satisfy off-post disposal requirements. Descriptions of the drum contents are provided on profile sheets (see Attachment C) and summarized below:

- Profile UMAD-4. Profile UMAD-4 included 164 drums containing used grout remaining from monitoring well installations and basalt well abandonments. No samples were collected from these drums. The disposal method was chosen based on Material Safety Data Sheets (MSDSs). Note that all drums containing grout and/or water were overpacked with 85-gallon drums prior to transport.
- Profile UMAD-6. This profile included 264 drums, the contents of which included sand, soil, PPE, debris, and plastic. These drums were analyzed for one or more of the following: explosives, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), Toxicity Characteristic Leaching Procedure (TCLP) metals, Total Petroleum Hydrocarbons (TPHs), benzene, toluene, ethylbenzene, and xylene (BTEX), F-listed solvents, polychlorinated biphenyls (PCBs), and Total Halogens (TX). Analytical results indicated elevated TPH levels for some of the drums. In addition analytical results from samples collected during the evaporation pond refurbishing indicated petroleum product contamination in the sediment from both ponds and in sand from Evaporation Pond 1. These drums were therefore grouped together in this profile.

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- Profile UMAD-16. Profile UMAD-16 consisted of 5 drums containing grout and water remaining from monitoring well installations. The disposal method for these drums was determined based on MSDS information. Prior to transport, these drums were also overpacked into 85-gallon drums.
- Profile UMAD-27. This profile included an overpack drum containing two, one-gallon cans
  of oil-based paint used for monitoring well and guard post identification. No analyses were
  performed. The drum was shipped and disposed of using waste codes for paints and
  thinners.

In August and September 1996, the 434 hazardous drums were transported off post by Philip. All drums disposed of off post had proper documentation (i.e., hazardous waste manifests) at the time of disposal. Copies of Uniform Hazardous Waste Manifests for all drums transported off post for disposal are provided in Attachment D. Manifests were reviewed and signed by authorized base personnel prior to shipment. The certificates of treatment, recycling, and/or disposal are provided in Attachment E.

### 3.0 ON-POST DRUM DISPOSAL

Based on the chemical results and recommendations in previously submitted waste disposal reports dated January 24, 1995 and February 1, 1995, 214 drums were determined to be non-hazardous and were disposed of on post at Site 12 (Inactive Landfills) (see Attachment F). Philip used a forklift equipped with a hydraulic drum tipper to empty these drums into a dump truck for transport to Site 12. The contents of approximately 30 drums were transported per dump truck load. ICF/Kaiser, the contractor currently working at Site 12, directed Philip where to deposit the soil at the landfill. ICF/Kaiser then leveled the stockpile of soil and spread it over the landfill as part of a cap designed to cover asbestos waste within the landfill. Philip then transported the empty drums off site for recycling, as shown on the manifest provided in Attachment G. Note that eight drums that were originally to be disposed of at Site 12 were found to contain water in addition to soil; therefore, they will remain in storage for disposal off post at a later date. The disposal of these and other drums from the RI and other contractors remaining in Buildings 411, 412, and 413 will be addressed in a later report after disposal.

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### 4.0 MISCELLANEOUS FIELD WASTE DISPOSAL

In addition to drums, solid waste generated during field programs--including old liners from the evaporation ponds, poly tanks used for well purge water and pumping tests, poly pipe used for well sampling, and pumps, lights, polyvinyl chloride (PVC) pipe, and electrical supplies used during pumping tests--was disposed of off post. An inventory of the solid waste disposed of off post is presented in Attachment H. At the request of ICF Kaiser, the contractor working at Site 4 (Explosives Washout Lagoons), certain field material, listed in Attachment I, was not disposed with the solid waste. These items are to be used during the remediation of Site 4.

Prior to disposal, all solid waste was wipe sampled for explosives using Websters solution. The Websters solution was approved by UMDA laboratory personnel prior to its use. Each piece of equipment and piping tested negative for explosives. The solid waste was placed in two 110-cubic yard dumpsters and hauled to the landfill. The weight tickets for the solid waste is provided in Attachment J.

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If you have any questions or need additional information, please do not hesitate to call.

Sincerely,

**DAMES & MOORE** 

Elizabeth S. Ritchie

Assistant Project Manager

Weine Ge Bollard.

Clesabeth & Retchie/wxB

Wayne A. Ballard

**Project Geologist** 

### ATTACHMENT A List of Analytes and Copies of Analytical Results

\*first # = Waste stream #

\*second # = Number in sample stream

"third # = Number of composit drums in sample

Philip Env. Sample #	Dames & Moore Drum#	Projected Profile #	Lab Analysis	Drum Content	cost per sample
1-1-(6)	trash 9/93, PPE/trash waste, trash 8/92, trash, PPE 9-1-92, trash	umad-1	TCLP, TPH	PPE & Debris	
1-2-(6)	trash, trash, trash, 3/5/90 solid waste, trash/ppe 9-13-92	umad-1	TCLP, TPH	PPE & Debris	
1-3-(6)	trash, trash, trash 4-13-92, trash 10-26-92, trash 12-5-92	umad-1	TCLP, TPH	PPE & Debris	
1-4-(6)	trash umda 718, 118, trash, trash, trash	umad-1	TCLP, TPH	PPE & Debris	
1-5-(6)	trash, trash, trash, trash, trash	umad-1	TCLP, TPH	PPE & Debris	,
1-6-(5)	ppe contam, ppe contam, ppe contam, ppe contam, ppe	umad-1	TCLP, TPH	PPE & Debris	
2-1-(2)	TNT-RDX Contaminated PPE, TNT-RDX Containated PPE	umad-2	Explosive test, TPH,	Contaminated PPE	
3-1-(3)	4-9 Hydro oil, hydro oil & sand, hydro oil & sand	umad-3	TPH, F-list solvents, TX, TCLP	Sand/Soil-90 to 100%, Plastic 0 to 1%, trash 0 to 1%	
6-1-(3)	DM# ust-18, diesal spill, ust-20	umad-6	TPH, BTEX, F-listed solvents	soil-50 to 100%, plastic 1 to 5%, PPE 0 to 1%	
7-1-(10)	Sediment Evap pond #2 9-2-92 Dm#'s 10,11,13,14,12,9,2,6,3,1	umad-7	TCLP, F-listed solvents, TX, VOC, SVOC, Benzene	water- 0 to 50%, sediment 0 to 50%	
7-2-(9)	Evap pond #2 9-2-92 Dm#'s 8,5,4,15,16,17,18,19,17,	umad-7	TCLP, F-listed solvents, TX, VOC, SVOC, Benzene	water- 0 to 50%, sediment 0 to 50%	
7-3-(9)	Evap pond #2 9-2-92 Dm#'s 20-26, Evap pond #1 DM#'s 1,2, 21	umad-7	TCLP, F-listed solvents, TX, VOC, SVOC, Benzene	water- 0 to 50%, sediment 0 to 50%	

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Philip Env.					
Sample #	Dames & Moore Drum #	Profile #	Lab Analysis	Drim Content	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			TCI D E-lietod		cost bet sattible
;	Evap pond #1,2, 9-1-92 DM#'s		solvents, TX, VOC,		
7-4-(9)	20,19,18,15,13,11,10,7,2	umad-7	SVOC, Benzene	water- 0 to 50%, sediment 0 to 50%	
		-	TCLP, F-listed		
7-5-(9)	Evap Pond #1. 9-1-92 Dm#'s 2.1.3.4 6.8 12.14.15	1.mad-7	solvents, TX, VOC,		
		,	SACO, BEILZEITE	water - 0 to 50%, sediment 0 to 50%	
() 1	4		TCLP, F-listed solvents, TX, VOC,		
(0)-0-/	Evap Fond #1, 9-1-92 Dm#'s 16, all other just date	nmad-7	SVOC, Benzene	water- 0 to 50%, sediment 0 to 50%	
			TCLP, F-listed		
8-1-(14)	6/11/3,2,4		solvents, TX, VOC,	Sand 1 to 50%, Gravel 1 to 50%, Soil 1	
7.1.2	07,81,71,61,61,61,6,18,18,19,10	umad-8	SVOC, Benzene	to 2%, water 0 to 1%	
	Evap pond #1 9/14/92 Dm#'s		TCLP, F-listed		
8.2.74.0	28,29,30,31,21,22,23,24,25,26	,	. <del>.</del> -	Sand 1 to 50%, Gravel 1 to 50%, Soil 1	
0-5-(14)	9/15/92 Um#'s 35,27,34,33	umad-8		to 2%, water 0 to 1%	
	36,	<u> </u>	TCLP, F-listed		
3	9/14/92 Dm#'s 16,14,11,108,38,42,46 9/17/92		solvents, TX, VOC,	Sand 1 to 50%, Gravel 1 to 50%. Soil 1	
8-3-(14)	Dm#'s 48	umad-8	SVOC, Benzene	to 2%, water 0 to 1%	
	Evap Pond #1 9/14/92 Dm#s 54,60,57 9/15/92		TCLP, F-listed		
;	Dm#'s 50,62,63,61, 9/16/92 Dm#'s		solvents, TX, VOC,	Sand 1 to 50%, Gravel 1 to 50%, Soil 1	
8-4-(14)	52,56,58,64,65,59,55	umad-8	SVOC, Benzene	to 2%, water 0 to 1%	
	19,74		TCLP, F-listed		
3	Dm#'s 51,47,45,43,41,39,68,70,72 9/15/92 Dm#s		solvents, TX, VOC,	Sand 1 to 50%, Gravel 1 to 50%, Soil 1	
6-5-(14)	37,66	umad-8	SVOC, Benzene	to 2%, water 0 to 1%	
	: 1 000 TF THE COURT TO THE TOTAL COURT TO THE TOTA		TCLP, F-listed		
8-6-(14)	Lyap poin #1 9/14/92 Diff#S 70,60 9/1//92 Dm#S 78,82,84 9/15/92 Dm#s 86 88 90 92 94 93 91 89	a-pauli	solvents, TX, VOC,	Sand 1 to 50%, Gravel 1 to 50%, Soil 1	
	Evap pond #1 9/17/92 Dm#s 79.77.75.71.69		TCI P E-lieted	10 276, Water U to 1%	
	9/15/92 Dm#s 87,67,97,99 9/24/92 Dm#s 58		Solvents TX VOC	Sand 1 to E00, Orangi 4 to E00,	
8-7-(14)	9/14/92 Dm#s 83,81,73,79	umad-8		10 2%, water 0 to 1%	
	ုပ္သ				
:	Dm#s 105,107,119 9/16/92 Dm#s		solvents, TX, VOC.	Sand 1 to 50%. Gravel 1 to 50%. Soil 1	
8-8-(14)	110,111,115,117,121,123,125,127	umad-8		to 2%. water 0 to 1%	
	Evap pond #1 9/14/92 Dm#s106 9/17/92 Dm#s				
(4)	128,122,116,112 9/15/92 Dm#s	,	solvents, TX, VOC,	Sand 1 to 50%, Gravel 1 to 50%, Soil 1	
0-9-(14)	150,124,120,116,114,103 9/16/92 Um#s 109,108	nmad-8	SVOC, Benzene	to 2%, water 0 to 1%	

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Dhillip Env					
Sample #	Dames & Moore Drum #	Projected Profile #	Lab Analysis	Drum Content	cost per sample
	Evap Pond #1 9/15/96 Dm#s 102,100,98 9/16/92		TCLP, F-listed		
	$\overline{}$		ن	Sand 1 to 50% Gravel 1 to 50% Soil 1	
8-10-(14)	133,135,137,139,146,148	umad-8		to 2%, water 0 to 1%	
	Evap Pond #1 9/16/92 Dm#s				
0 11 (14)	146,147,154,156,158,158,153,152 9/17/92 Dm#'s			Sand 1 to 50%, Gravel 1 to 50%, Soil 1	
1411-10-10	131,100,101,137,143	nmad-8		to 2%, water 0 to 1%	
			•		
8-12-(14)	04,170,170,143,102,103,107,108,172 Dm#s 141,138,136,134,132,131,170	umad-8	solvents, TX, VOC, SVOC, Benzene	Sand 1 to 50%, Gravel 1 to 50%, Soil 1 to 2% water 0 to 1%	
;	Dm#s180,182,184,184,186,185,164,166,167,188,1		ن ن	Sand 1 to 50%, Gravel 1 to 50%, Soil 1	7.
8-13-(14)	79,177,175,173,163 9/16/92 Dm#s 176	umad-8	SVOC, Benzene	to 2%, water 0 to 1%	
			·		
6					
(/)-1-8	Solids 9/1/92 Um#s 1,2,3,4,5,6,7	umad-9	SVOC, Benzene	100%, water 0 to 1%	
11-1-(1)	S35-1,2 & 3	umad-11	PCB Pesticides by TCLP, TPH	Sand 50 to 70%,  Gravel 10 to 30%, water 0 to 1%	
				Grout & PVC water 0 to 50% pvc 1 to	
12-1-(13)	Dm# 4-17 dates 11/2,7,6/94	umad-12	TCLP, TPH Explosive	10%, grout 50 to 90%, gravel 0 to 2%,	
				Group B DVC motor of a 50%	
			TOID TOH Evaluative	Stout & PVC water 0 to 50%, pvc 1 to	
12-2-(14)	Dm# 4-17 dates 11/7,21,22,6,2/94	umad-12	on batch	on batch	
				Grout & PVC water 0 to 50%, pvc 1 to	
12-3-(14)	Dm# 4-17 dates 11/7,21,17,18,6/94	umad-12	TCLP, TPH Explosive on batch	TCLP, TPH Explosive 10%, grout 50 to 90%, gravel 0 to 2%, on batch	
				Grout & PVC water 0 to 50%, pvc 1 to	
12.4.(13)	Dm# 4 12 detec 147 24 47 20 40/01	7	olosive	10%, grout 50 to 90%, gravel 0 to 2%,	
6112	VIIII 4-17 Dates 117,21,17,20,10/84	nmag-12	on Datch	soil 0 to 2%	
	Dm# 4-17 dates 11/8 2/94 Dm# 4-9 dates		TO TOUR GLANDS	Grout & PVC water 0 to 50%, pvc 1 to	
12-5-(13)	- 1	umad-12		10%, grout 50 to 90%, graver 0 to 2%, soil 0 to 2%	
		-		Grout & PVC water 0 to 50%, pvc 1 to	
12-6-(13)	Dm# 4-9 dates 5/8/95	umad-12	TCLP, TPH Explosive on batch	TCLP, TPH Explosive 10%, grout 50 to 90%, gravel 0 to 2%, on batch	

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Philip Fnv					
Sample #	Dames & Moore Drum #	Projected Profile #	Lab Analysis	Drum Content	cost nay earnale
12-7-(12)	Dm# 4-8 dates 5/12,9/95	umad-12	osive	Grout & PVC water 0 to 50%, pvc 1 to 10%, grout 50 to 90%, gravel 0 to 2%,	
15-1-(4)	Dm# S-44 0 8 S30.4 S48.5	J. Food		Soil Cuttings with petrol contam. soil 50	
15-2-(8)		mad-15	TCLP, F-listed solvents, TX, VOC,	Soil Cuttings with petrol contam. soil 50	
16-1-(5)	Dm# 4-1,4-10,4-9,4-9,4-8	umad-16		Grout & Water, Water 50 to 100%, grout	
17-1-(4)	Dm# Poly liner dates 9/24/92 1,2 Dm# 9/25/92 3,4	umad-17	ن و	Contaimated pond liner liner 50 to	
17-1-(bulk)	Pond Liners	umad-17		يّ ا	
18-1-(1)	Poly tank	umad-18	P.	Emnty Poly tank	
18-2-(1)	Poly tank	umad-18		and the state of t	
18-3-(1)	Poly tank	umad-18	TCLP, TPH Webster	Empty Poly tank	
18-4-(1)	Poly tank	umad-18	<del></del>	Empty Poly tank	
18-5-(1)	Poly tank	umad-18	·	Emoty Poly tent	
18-6-(1)	Poly tank	umad-18	TCLP, TPH, Webster	Empty Poly tank	

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BEILE F.					
Sample #	Dames & Moore Drum #	Projected Profile #	Lab Analysis	Drum Content	cost par esmala
18-7-(1)	Polytank	9. Post	TO DE UMARA	i.	
		מון מסק	I OLL', I L'II, Websier	Empty Poly tank	
18-8-(1)	Poly tank	umad-18	TCLP, TPH, Webster	Empty Poly tank	
18-9-(1)	Poly tank	umad-18	TCLP, TPH, Webster		
link-1			PCB, TX Explosive, TCLP, TPH		
	MINIOWII		r-list solvents	Poly liner/tarp 90% Soil 1 to 2%	
unk-2	unknown		PCB, TX Explosive, TCLP, TPH F-list solvents	Soil 1 to 2007, around 1 to 5007	
			PCB TX	2011 1 (0 20%, glavel 1 (0 30%	
unk-3	unknown Dm#m-1, 2-1		Explosive, TCLP, TPH F-list solvents	Explosive, TCLP, TPH debris 1 to 50%, sand and soil 1 to 30%, F-list solvents ppe 1 to 20%	
unk-4	unknown		Explosive,TCLP, TPH F-list solvents	Explosive,TCLP, TPH Debris 1 to 40%, plastic 1 to 20%, PPE 1 F-list solvents to 30%, soil 1 to 10%	
- - - -			PCB, TX Explosive, TCLP, TPH	PCB, TX Explosive, TCLP, TPH Debris 1 to 40%, plastic 1 to 20%, PPE 1	
	IIIVIONI I		SI	to 30%, soil 1 to 10%	
unk-6	unknown Dm#6		PCB, TX Explosive, TCLP, TPH F-list solvents	PCB, TX Explosive, TCLP, TPH Soil and sand 90 to 100%, Gravel 1 to F-list solvents 5%	
unk-7	unknown		PCB, TX Explosive, TCLP, TPH F-list solvents	Explosive, TCLP, TPH water 20 to 50%, soil 1 to 20% Note F-list solvents	
	owordi.		PCB, TX Explosive, TCLP, TPH	PCB, TX Explosive, TCLP, TPH gravel 20 to 75%, soil and sand 1 to 15%,	
2415	HIMITA		r-iist solvents	water 1 to 10%	
			PCB, TX		
unk-9	unknown Dm# M-2			PPE 70 to 90%, plastic 1 to 5%	

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Philip Env.					
Sample #	Dames & Moore Drum #	Profile #	Lab Analysis	Drum Confent	
			PCB_TX		cost per sample
			Explosive, TCLP, TPH		
unk-10	unknown			soil and sand 90 to 100%, gravel 1 to 5%	
70.			Explosive, TCLP, TPH		
UIN-I	unknown		F-list solvents	PPE 90 to 100%, soil 1 to 2%	
			PCB, TX		
4 70			Explosive, TCLP, TPH		
UIIR-12	unknown		F-list solvents	plastic 90 to 100% debris 1to 2%	
			PCB, TX		
4 100			Explosive, TCLP, TPH	-	
UNK-13	unknown		F-list solvents	soil and sand 90 to 100%	
			PCB, TX		
1, 10.			Explosive, TCLP, TPH		
UIIK-14	unknown		F-list solvents	soil and sand 90 to 100%	
			PCB, TX		
1 1 1			Explosive, TCLP, TPH		
UIIN-13	unknown, Dm# gravel		F-list solvents	Gravel 90 to 100%	
			PCB, TX		
			Explosive, TCLP, TPH		
UIIK-10	unknown, Dm# W		F-list solvents	Water 1 to 10%, gravel 90 to 100%	
			PCB, TX		
71 7011			Explosive, TCLP, TPH		
II-VIII	unknown, DM# AP		F-list solvents	Soil and Sand 90 to 100%	
			PCB, TX		
10k-18	T T T T T T T T T T T T T T T T T T T		Explosive, TCLP, TPH		
	dilkilowii, Dil# AF		F-list solvents	Soil and Sand 90 to 100%	
			PCB, TX		
100			Explosive, TCLP, TPH		
DIIN-18	unknown, Dm# AP		F-list solvents	Soil and Sand 90 to 100%	
			PCB, TX		
00 401			Explosive, TCLP, TPH	Explosive,TCLP, TPH Sludge 90 to 100%, Gravel 1 to 5%,	
Ulik-20	unknown, Dm# Sand Silt, W		F-list solvents	water 1 to 10%	
			PCB, TX		
unk-21	unknown. Dm# W		Explosive, TCLP, TPH	Explosive, TCLP, TPH   Sludge 90 to 100%, Gravel 1 to 5%,	
			L-IISI SOIAGIIIS	water 1 to 10%	

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third # = Number of	Third # = Number of composit drums in sample				
Sample #	Dames & Moore Drum#	Projected Profile#	Lab Analysis	Drum Content	cost per sample
unk-22	unknown, Dm# Sand & Gravel		PCB, TX Explosive, TCLP, TPH F-list solvents	PCB, TX Explosive, TCLP, TPH Gravel 90 to 100%, sand 1 to 5%, water 1 F-list solvents to 5%	
unk-23	unknown, Dm# AP		PH	Soil and Sand 90 to 100%	
unk-24	unknown, Dm# AP		PCB, TX Explosive, TCLP, TPH F-list solvents	PCB, TX Explosive, TCLP, TPH Soil and Sand 90 to 100%, Cement 5 to F-list solvents 10%	
unk-25	unknown, Dm# AP		PCB, TX Explosive, TCLP, TPH F-list solvents	Soil and Sand 90 to 100%	
unk-26	unknown, Dm# AP		PCB, TX Explosive, TCLP, TPH F-list solvents	Soil and Sand 90 to 100%	
30-1-(4)	Dm#s 4-107 EWGRD46, 4-110 EWGRD73, 4-107 EWGRD47, 4-110 EWGRD74	umad-30	TCLP, TPH, Explosive test on batch	Soil and sand 50 to 100%	
30-2-(5)	Dm#s 4-110 EWGRD 72, 4-109 EWGRD60, 4-107 EWGRD60,48, 4-110 EWGRD75	umad-30	TCLP, TPH, Explosive test on batch	Soil and sand 50 to 100%	
				Total Lab Analysis Cost	\$0.00



NATIONAL SERVICES											DA	DATE 6/	75/811	PAGE	3E	_ of <u>_</u>	N
PROJECT 9600011		*		ANALYSIS REQUESTED	REQUES	TED							OTHER (Specify)	,		_	٥N٥
CONTACT CONTACT GENERATOR NAME (MAKE)   C.   TELEPHONE # (360) 835-8574	J. HWY	Depot		GANICS	(104.		VENTS	D SOLVENTS	VF)	'11			17576.	ימירוביוזיביות לילינייאי מבן ליליניי		CONTRINERS	SOOD CONDITI
SAMPLEHS NAME [] A. C. S. SKICKT. SAMPLEHS SIGNATUHE	M	PHONE * (2/15) 835-8554	4554	E/NEU/AC MS/625/82 ATILE OR	0808	(circle me 1 0 8015) m eloucle m	Oc 8020		TOT) SJA	3a, Cd, Cr. g. Ag, Se. in	DHGANICS 1.5 8270 1.5 8270 OHCARS 8080 OHCARNICS	HARGE	1711	γ <u>φ</u>		BEH OF C	EINED IN C
SAMPLE I D. DATE	TIME	LAB I.D.	TYPE	AOF GC/I		(T38		TCL	DOOG	Z 'QS H '!N	. Pes BN:	DISC	XI	FES		IMUN	несе
1/-/-(6)		4404917				<b>×</b>			X							_	
2.1-2-16)		124918				~			X								
3. 1-3-16)		0 49194				X			X								
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(LAB-200 Rev 5/95)



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(LAB-200 Rev. 5/95)



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- VOA's 8240

- BAA'S 827C

- Pestinges 8090

0 18 1800 X METALS (TOTAL) As, Ba, Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Ti, Sb, Zn 11-#000 X TCLP METALS 1311/8540 TCLP F-LISTED SOLVENTS X 8540 F-LISTED SOLVENTS X ANALYSIS REQUESTED TPH (circle method) 418.1 or 6015  $\overline{X}$ 608/8080 PCB's Relinquished By Printed Name Printed Name Received By CC/W2/624/8240 Date/Time Date/Time Signature Signature VOLATILE ORGANICS GC/MS/625/8270 Fira Ē BASE/NEU/ACID ORGAN PHONE # 34 0 \$35 - 35' TYPE 0 4941 04946 440 4940 0 4942 04943 04945% 04944 LAB I.D. Relinquished By Printed Name Printed Name Received By Date/Time Date/Time Signature Signature TIME HARES + MOCIA Fig Fig 10:30AR DATE GENERATOR NAME KINGE & 1/6 TELEPHONE # 300 - 835-855 4 SAMPLERS NAME MALL PROJECT **26.0011** SAMPLERS SIGNATURE 96/6// SAMPLE 1 D. 3-10-(14) 8-11-(14) 8-12-(14) 9-13-(14) 8-9-(14) 9-1-6 (1)-/-// / Relinquished By Printed Name fnted Name Date/Time / Date/Time Signature Signatur Fig Ē

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- VOA's 8240
- BAA's 8270
- Presincides 808C METALS (TOTAL) As, B8. Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Ti, Sb, Zn TCLP METALS 11-4000 1 1311/8540 TCLP F-LISTED SOLVENTS 8540 4 F-LISTED SOLVENTS SETX (circle method) 8240 or 8020 TPH (circle method) 418.1 or 8015 ANALYSIS REQUESTED Ł 0808/809 Relinquished By Printed Name Printed Name Received By VOLATILE ORGANICS GC/MS/624/8240 Date/Time Date/Time Signature Signature GC/MS/625/8270 Firm Firm PHONE # 760 -835 4554 TYPE AA64455 04457. 04958 4404954 04959 LAB I.D. Relinquished By Printed Name Printed Name Received By Date/Time Date/Time Signature Signature TIME Firm 5441110 11 - 11 C TELEPHONE # 740 835-8534 DATE 10:304-GENERATOR NAME (KVV/L) 1141211 SAMPLERS SIGNATURE 5 17-2-10LIK SAMPLERS NAME SAMPLEID (4)-1-(1 15-1-14 7.30-2.(5) Date/F/ 15-32-(8 630.1-(4) 3. 光明代 CLIENT INFO Relinquished By Printed Name **PROJECT** Date/Time/ Printed Nar Received Signature Fire



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RECEIVED IN GOOD CONDITION? NUMBER OF CONTRINERS 406191522 OTHER (Specufy) SPECIAL INSTRUCTIONS/COMMENTS: **TESTING** DISCHARGE Herbicides 8150
 BAA's 8270
 AOA's 8240 ICLP ORGANICS (specify methods) METALS (TOTAL) As, Ba, Cd, Cr, Cu, Pb. Nr, Hg, Ag, Se, Tl, Sb, Zn TCLP METALS 0004-11 1311/8240 TOLP F-LISTED SOLVENTS F-LISTED SOLVENTS X SETX (circle method) 8240 or 8020 ANAL YSIS REQUESTED TPH (circle method) 908/8080 bCB.2 Relinquished By Printed Name Printed Name Received By CC/W2/624/8240 Date/Time Date/Time Signature VOLATILE ORGANICS Signature GC/MS/625/8270 Fig Eig PHONE # 20535-8559 TYPE 104987 049844 1404981 V 0 4983 029 PG 04985. 0 4982 10 49 PK LAB I.D. Relinquished By Printed Name Printed Name Received By Date/Time Date/Time Signature Signature TIME Fig Fig TELEPHONE # 360. 535 - 857 Y 10:30AM DATE 9.1. Juil SAMPLERS SIGNATURE GENERATOR NAME \_\_ SAMPLE I D. Date/Time /19/9 SAMPLERS NAME 6 -0/-8-40171 -13 CLIENT INFO Relinquished By Printed Name Printed Name Date/Time PROJECT Received Signature Ē Fira αi κi ø



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Received Br M.	Received By	1 By		Received By	, A			Γ										
Signature	Signature			Signature														
Printed Name	Printed Name	lame		Printed Name	me													
Firm	Firm			Firm														
Date/Time 6/19/96 10:30 An	Date/Time	91		Date/Time							,	#F	190#	#06141522	1			

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator.

(LAB-200 Rev. 5.95)



### Laboratory Analysis Request Chain of Custody/

RECEIVED IN GOOD CONDITION? NUMBER OF CONTAINERS PO. PAGE #06(4/522 OTHER (Specify) 9606 SPECIAL INSTRUCTIONS/COMMENTS: DISCHARGE DISCHARGE DATE • VOA's 8240 • BNA's 8270 • Pesticides 8080 • Herbicides 8150 ICLP ORGANICS (specify methods) METALS (TOTAL) As. Ba. Cd. Cr. Cu. Pb. Vi. Hg. Ag. Se. Ti. Sb. Zn TCLP METALS TCLP F-LISTED SOLVENTS 8540 F-LISTED SOLVENTS BETX (circle method) ANAL YSIS REQUESTED TPH (circle method) 0808/809 bCB.2 Relinquished By Printed Name Printed Name VOLATILE ORGANICS GC/MS/624/8240 Received By Date/Time Date/Time Signature Signature GC/MS/625/8270 Fig Fig BASE/NEU/ACID ORGAN. TYPE 440499F 04998 0 4999 LAB I.D. PHONE # Relinquished By Printed Name Printed Name Received By 1714 Signature Date/Time Date/Time Signature TIME Figure Eig Mocie DATE 13:13.45 GENERATOR NAME (KENELL 1.21.es 1 SAMPLERS NAME Marc PROJECT //2/10/1 SAMPLERS SIGNATURE TELEPHONE # 26C SAMPLE ID. 196 1.34 26 CLIENT INFO Relinquished By Date/Time/4/ Printed Name Date/Time inted Nami Signature Eig Ē αi Ś

ø



Marc Strickler
Philip Environmental

July 17th, 1996

Mark Ochsner
Dames & Moore
Portland, OR

Dear Mark:

The following are all of the analytical results. I have highlighted the samples of concern. They are 1-3-(6), 2-1-(2), 3-1-(3), 6-1-(3), Unk 1, 4, 5, and 11. Each of the samples have a high THP in either the Diesel, Motor oil or Gasoline range. Samples 3-1-(3) and 6-1-(3) should have a high TPH because they were generated from a diesel or oil spill. In order to send the material direct to land fill the TPH needs to be well below 30,000 ppm. (Rabanco landfill)

I would like to take the 18 drums of concern and group them all into waste stream 6 for disposal. I would generate one profile for all of the material to be stabilized and then sent to landfill. This would mean we would not run any Tier 2 analytical. If that is a concern to you or the Army, then Tier 2 analytical would be run on the six drums in sample 1-3-(6) and the two drums in sample 2-1-(2).

Sincerely

Marc Strickler

**Environmental Specialist** 



12-Jul-96 Page 1 of 10

### ZENON LABORATORIES Certificate of Analysis

8577 Commerce Court Burnaby, B.C. Canada V5A 4N5 Tel 604 444 4808 Fax 604 444 4511

Reported To:

PHILIP ENVIRONMENTAL

Client Code P1

955 POWELL AVENUE RENTON, WASHINGTON

Attention Phone : STAN MELO

98055-2908

FAX

: (206) 227-0311 : (206) 227-6196

**Project Information:** 

Project ID

: UMATILLA ARMY DEPOT

**Requisition Forms:** 

Form 06110700 logged on 4-Jul-96 completed on 12-Jul-96 Form 61107001 logged on 4-Jul-96 completed on 12-Jul-96

### Remarks:

All organic data is blank corrected except for PCDD/F, Hi-res MS and CLP volatile analyses

Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

All Groundwater samples are decanted and/or filtered prior to analysis

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 18th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied.

Your samples will be retained at Zenon for a period of 30 days from receipt of data or as per contract.

ZENON Project Manager: Jack Wilson

<sup>&#</sup>x27;MDC' = Minimum Detectable Concentration, '<' = Less than MDC, '--' = Not analyzed

Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease

Organic analyses are not corrected for extraction recovery standards except for Isotope



12-Jul-96 Page 2 of 10

### ANALYTICAL REPORT

Client :

PHILIP ENVIRONMENTAL

Project:

UMATILLA ARMY DEPOT

	22.0.	Zenon ID : Client ID :	METHOD BLANK	96016883 7-1-(10)	96016884 7-2-(9)	96016885 7-4-(9)	96016886 7 <b>-</b> 6-(6)
Parameter	Unit	МДС					
TCLP Extraction	None			(1)	— (2)	(3)	(4)
OTAL							
Silver	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Arsenic	mg/L	0.04	< 0.04	0.12	0.06	0.09	0.06
Barium	mg/L	0.001	< 0.001	1.30	1.79	1.41	1.56
Cadmium	mg/L	0.002	< 0.002	< 0.002	< 0.002	0.004	< 0.002
Chromium	mg/L	0.002	< 0.002	0.007	0.011	0.024	0.038
Mercury	mg/L	0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.000
Lead	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04
Selenium	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
		Matrix :		Soil	Soil	Soil	Soil
		Sampled on:		96/06/12	96/06/12	96/06/12	96/06/12
-	Parameter  TCLP Extraction  TAL Silver Arsenic Barium Cadmium Chromium Mercury Lead	TCLP Extraction None  OTAL  Silver mg/L  Arsenic mg/L  Barium mg/L  Cadmium mg/L  Chromium mg/L  Mercury mg/L  Lead mg/L	Zenon ID :   Client ID :     Client ID :     Client ID :       Client ID :	Zenon ID : METHOD   Client ID : BLANK	Zenon ID : METHOD   96016883   Client ID : BLANK   7-1-(10)	Telephone   Tele	Parameter   Unit   MDC

### Result comments and/or text results:

(1) Text results for sample 96016883 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(2) Text results for sample 96016884 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(3) Text results for sample 96016885 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(4) Text results for sample 96016886 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996



12-Jul-96

### ANALYTICAL REPORT

Page 3 of 10

Client : Project: PHILIP ENVIRONMENTAL

**UMATILLA ARMY DEPOT** 

Zenon ID:	96016887	96016888	96016889	96016890
Client ID:	12-1-(13)	12-2-(14)	12-3-(14)	12-4-(13)

			Chent ID:	12-1-(13)	12-2-(14)	12-3-(14)	12-4-(13)
Sparcode	Parameter	Unit	MDC				
<u></u>							
PHYSICAL							
TCLPTC01	TCLP Extraction	None		<del></del> (1)	(2)	(3)	(4)
METALS TO	TAL						
Ag-T0042	Silver	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03
As-T0042	Arsenic	mg/L	0.04	< 0.04	0.10	< 0.04	0.09
Ba-T0042	Barium	mg/L	0.001	0.259	0.943	0.520	0.932
Cd-T0042	Cadmium	mg/L	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cr-T0042	Chromium	mg/L	0.002	0.008	0.019	0.027	0.010
Hg-T0310	Mercury	mg/L	0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Pb-T0042	Lead	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03
Se-T0042	Selenium	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03
			Matrix :	Soil	Soil	Soil	Soil
			Sampled on:	96/06/12	96/06/12	96/06/12	96/06/12

### Result comments and/or text results:

(1) Text results for sample 96016887 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(2) Text results for sample 96016888 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(3) Text results for sample 96016889 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(4) Text results for sample 96016890 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY9, 1996



12-Jul-96

### ANALYTICAL REPORT

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Client :
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PHILIP ENVIRONMENTAL

UMATILLA ARMY DEPOT

Project:	OMATILLA ARMIT DEPOT		Zenon ID : Client ID :	96016891 12-5-(13)	96016892 12-6-(13)	96016893 12-7-(12)	96016894 30-1-(4)
Sparcode	Parameter	Unit	MDC				
PHYSICAL							
TCLPTC01	TCLP Extraction	None		<del></del> (1)	(2)	<del></del> (3)	(4)
METALS TO	TAL						
Ag-T0042	Silver	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03
As-T0042	Arsenic	mg/L	0.04	0.10	< 0.04	< 0.04	0.07
Ba-T0042	Barium	mg/L	0.001	1.33	0.555	0.974	1.41
Cd-T0042	Cadmium	mg/L	0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cr-T0042	Chromium	mg/L	0.002	0.028	0.094	0.112	0.009
Hg-T0310	Mercury	mg/L	0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005
Pb-T0042	Lead	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03
Se-T0042	Selenium	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03

Matrix

: Soil

Sampled on: 96/06/12

Soil

96/06/12

Soil

96/06/12

Soil

96/06/12

### Result comments and/or text results:

(1) Text results for sample 96016891 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(2) Text results for sample 96016892 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(3) Text results for sample 96016893 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(4) Text results for sample 96016894 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996



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### ANALYTICAL REPORT

PHILIP ENVIRONMENTAL Client:

Project:

**UMATILLA ARMY DEPOT** 

Zenon ID:	96016895	96016896	96016897	96016897
Client ID:	UNK-7	UNK-16	UNK-20	Duplicate

			Cache ID.	OTTIC-/	01111-10	0111120	Duplicate
Sparcode	Parameter	Unit	MDC				
						1-21	
PHYSICAL							
TCLPTC01	TCLP Extraction	None		<del> (1)</del>	<del></del> (2)	<del></del> (3)	
METALS TO	TAL.						
Ag-T0042	Silver	mg/L	0.03	< 0.03	< 0.03	< 0.03	
As-T0042	Arsenic	mg/L	0.04	< 0.04	< 0.04	0.06	
Ba-T0042	Barium	mg/L	0.001	1.14	0.431	1.56	
Cd-T0042	Cadmium	mg/L	0.002	< 0.002	< 0.002	< 0.002	
Cr-T0042	Chromium	mg/L	0.002	0.045	0.014	0.038	
Hg-T0310	Mercury	mg/L	0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Рь-Т0042	Lead	mg/L	0.03	< 0.03	< 0.03	0.04	
Se-T0042	Selenium	mg/L	0.03	< 0.03	< 0.03	< 0.03	

Matrix Soil Soil : Soil Sampled on: 96/06/13 96/06/13 96/06/13

### Result comments and/or text results:

(1) Text results for sample 96016895 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(2) Text results for sample 96016896 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996

(3) Text results for sample 96016897 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 9,1996



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### SPIKE SUMMARY

Parameter	Client ID	Zenon ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Mercury	Blank Spike. Batch :	64201467	< 0.00005	0.00044	.0005	mg/L	81
Mercury	UNK-20	96016897	< 0.00005	0.00046		mg/L	84



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	Zenon ID:	96016883	96016884	96016885	96016886
	Client ID:	7-1-(10)	7-2-(9)	7-4-(9)	7-6-(6)
TCLPTC01	TCLP Extraction	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
Ag-T0042	Silver	12-JUL-1996	12-JUL-1996	10-JUL-1996	12-JUL-1996
As-T0042	Arsenic	12-JUL-1996	12-JUL-1996	10-JUL-1996	12-JUL-1996
Ba-T0042	Barium	12-JUL-1996	12-JUL-1996	10-JUL-1996	12-JUL-1996
Cd-T0042	Cadmium	12-JUL-1996	12-JUL-1996	10-JUL-1996	12-JUL-1996
Cr-T0042	Chromium	12-JUL-1996	12-JUL-1996	10-JUL-1996	12-JUL-1996
Hg-T0310	Mercury	10-JUL-1996	10-JUL-1996	10-JUL-1996	11-JUL-1996
Рь-Т0042	Lead	1 <b>0-JUL</b> -1996	10-JUL-1996	10-JUL-1996	12-JUL-1996
Se-T0042	Selenium	1 <b>0-JUL</b> -1996	10-JUL-1996	10-JUL-1996	12-JUL-1996
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	12-JUN-1996	12-JUN-1996	12-JUN-1996	12-JUN-1996



12-Jul-96

12-Jul-96	•	ANALISIS
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	Zenon ID: Client ID:	96016887 12-1-(13)	96016888 12-2-(14)	96016889 12-3-(14)	96016890 12-4-(13)
		32 1 (33)	( /	` ,	, ,
TCLPTC01	TCLP Extraction	10-JUL-1996	10-JUL-1996	1 <b>0-JUL-</b> 1996	10-ЛИL-1996
Ag-T0042	Silver	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
As-T0042	Arsenic	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
Ba-T0042	Barium	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
Cd-T0042	Cadmium	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
Cr-T0042	Chromium	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
Hg-T0310	Mercury	11-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
Pb-T0042	Lead	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
Se-T0042	Selenium	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	12-JUN-1996	12-JUN-1996	12-JUN-1996	12-JUN-1996



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Zenon ID:	96016891 12-5-(13)	96016892 12-6-(13)	96016893 12-7-(12)	96016894 <b>30</b> -1-(4)	
CHOIL ID.	12-5-(13)	12-0-(13)	12-1-(12)	30-1-(4)	
TCLP Extraction	10-JUL-1996	10-ЛЛ-1996	10-JUL-1996	10-JUL-1996	
	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Arsenic	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Barium	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Cadmium	10-ЛUL-19 <del>9</del> 6	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Chromium	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Mercury	10-JUL-1996	11-JUL-1996	11-JUL-1996	11-JUL-1996	
Lead	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Selenium	10-JUL-1996	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Matrix:	Soil	Soil	Soil	Soil	
Sampled on:	12-JUN-1996	12-JUN-1996 12-JUN-1996 12-JUN-		6 12-JUN-1996	
	Client ID:  TCLP Extraction Silver Arsenic Barium Cadmium Chromium Mercury Lead Selenium Matrix:	Client ID:       12-5-(13)         TCLP Extraction       10-JUL-1996         Silver       10-JUL-1996         Arsenic       10-JUL-1996         Barium       10-JUL-1996         Cadmium       10-JUL-1996         Chromium       10-JUL-1996         Mercury       10-JUL-1996         Lead       10-JUL-1996         Selenium       10-JUL-1996         Matrix:       Soil	Client ID:       12-5-(13)       12-6-(13)         TCLP Extraction       10-JUL-1996       10-JUL-1996         Silver       10-JUL-1996       10-JUL-1996         Arsenic       10-JUL-1996       10-JUL-1996         Barium       10-JUL-1996       10-JUL-1996         Cadmium       10-JUL-1996       10-JUL-1996         Chromium       10-JUL-1996       11-JUL-1996         Mercury       10-JUL-1996       11-JUL-1996         Lead       10-JUL-1996       10-JUL-1996         Selenium       10-JUL-1996       10-JUL-1996         Matrix:       Soil       Soil	Client ID:       12-5-(13)       12-6-(13)       12-7-(12)         TCLP Extraction       10-JUL-1996       10-JUL-1996       10-JUL-1996         Silver       10-JUL-1996       10-JUL-1996       10-JUL-1996         Arsenic       10-JUL-1996       10-JUL-1996       10-JUL-1996         Barium       10-JUL-1996       10-JUL-1996       10-JUL-1996         Cadmium       10-JUL-1996       10-JUL-1996       10-JUL-1996         Chromium       10-JUL-1996       10-JUL-1996       10-JUL-1996         Mercury       10-JUL-1996       11-JUL-1996       11-JUL-1996         Lead       10-JUL-1996       10-JUL-1996       10-JUL-1996         Selenium       10-JUL-1996       10-JUL-1996       10-JUL-1996         Matrix:       Soil       Soil       Soil	



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	Zenon ID: Client ID:	96016895 UNK-7	96016896 UNK-16	96016897 UNK-20	
TCLPTC01	TCLP Extraction	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Ag-T0042	Silver	10-JUL-1996	10-JUL-1996	10-JUL-1996	
As-T0042	Arsenic	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Ba-T0042	Barium	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Cd-T0042	Cadmium	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Cr-T0042	Chromium	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Hg-T0310	Mercury	11 <b>-JUL</b> -1996	11-JUL-1996	11-JUL-1996	
Pb-T0042	Lead	10-JUL-1996	10-JUL-1996	10-JUL-1996	
Se-T0042	Selenium	10-JUL-1996	10-JUL-1996	10-JUL-1996	
	Matrix:	Soil	Soil	Soil	
	Sampled on:	13-JUN-1996	13- <b>J</b> UN-1996	13-JUN-1996	



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### ZENON LABORATORIES Certificate of Analysis

8577 Commerce Court Burnaby, B.C. Canada V5A 4N5 Tel 604 444 4808 Fax 604 444 4511

Reported To:

PHILIP ENVIRONMENTAL

Client Code P1

955 POWELL AVENUE RENTON, WASHINGTON

Attention Phone

: STAN MELO : (206) 227-0311

98055-2908

FAX

: (206) 227-6196

**Project Information:** 

Project ID

: 06191522

**Requisition Forms:** 

Form 06110925 logged on 10-Jul-96 completed on 15-Jul-96

### Remarks:

- All organic data is blank corrected except for PCDD/F, Hi-res MS and CLP volatile analyses
- 'MDC' = Minimum Detectable Concentration, '<' = Less than MDC, '---' = Not analyzed
- Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease
- Organic analyses are not corrected for extraction recovery standards except for Isotope Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
- All Groundwater samples are decanted and/or filtered prior to analysis

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 18th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied.

Your samples will be retained at Zenon for a period of 30 days from receipt of data or as per contract.

ZENON Project Manager: Jack Wilson

Milw



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#### ANALYTICAL REPORT Form 06110925

Client:

PHILIP ENVIRONMENTAL

Project:

06191522

riojeci.	00191322		Zenon ID : Client ID :	METHOD BLANK	96017607 UNK-18	96017608 UNK-19	96017609 UNK-22	96017610 UNK-23
Sparcode	Parameter	Unit	MDC					
PHYSICAL								
TCLPTC01	TCLP Extraction	None			<del> (1)</del>	(2)	(3)	(4)
METALS L	EACHABLE							ļ
Ag-L0042	Silver Leachable	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
As-L0042	Arsenic Leachable	mg/L	0.04	< 0.04	0.07	0.04	< 0.04	0.05
Ba-L0042	Barium Leachable	mg/L	0.001	< 0.001	0.554	0.467	0.382	0.249
Cd-L0042	Cadmium Leachable	mg/L	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cr-L0042	Chromium Leachable	mg/L	0.002	< 0.002	0.024	0.010	0.006	0.010
Hg-L0310	Mercury Leachable	mg/L	0.00005	< 0.00005	< 0.00005	0.890	0.00080	0.0122
Pb-L0042	Lead Leachable	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Se-L0042	Selenium Leachable	mg/L	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
<del></del>								
			Matrix : Sampled on:		Soil 96/06/13	Soil 96/06/13	Soil 96/06/13	Soil 96/06/13

#### Result comments and/or text results:

(1) Text results for sample 96017607 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 10,1996

(2) Text results for sample 96017608 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 10,1996

(3) Text results for sample 96017609 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 10,1996

(4) Text results for sample 96017610 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 10,1996



A division of their Analytical Screec

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#### ANALYTICAL REPORT Form 06110925

Client :

PHILIP ENVIRONMENTAL

Project :

06191522

Project :	06191522		Zenon ID : Client ID :	96017611 UNK-24	96017612 UNK-25	96017613 UNK-26
Sparcode	Parameter	Unit	MDC			**************************************
PHYSICAL						
TCLPTC01	TCLP Extraction	None		<del></del> (1)	(2)	(3)
METALS LEA	ACHABLE					
Ag-L0042	Silver Leachable	mg/L	0.03	< 0.03	< 0.03	< 0.03
As-L0042	Arsenic Leachable	mg/L	0.04	< 0.04	0.04	0.04
Ba-L0042	Barium Leachable	mg/L	0.001	0.617	0.691	0.099
Cd-L0042	Cadmium Leachable	mg/L	0.002	< 0.002	< 0.002	< 0.002
Cr-L0042	Chromium Leachable	mg/L	0.002	0.014	0.007	0.007
Hg-L0310	Mercury Leachable	mg/L	0.00005	0.00140	0.00370	0.144
Рь- <b>L00</b> 42	Lead Leachable	mg/L	0.03	< 0.03	< 0.03	< 0.03
Se-L0042	Selenium Leachable	mg/L	0.03	< 0.03	< 0.03	< 0.03
			Matrix :	Soil	Soil	Soil
			Sampled on:	96/06/13	96/06/13	96/06/13

#### Result comments and/or text results:

(1) Text results for sample 96017611 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 10,1996

(2) Text results for sample 96017612 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 10,1996

(3) Text results for sample 96017613 sparcode TCLPTC01 follow:

EXTRACTION COMPLETED ON JULY 10,1996



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#### SPIKE SUMMARY Form 06110925

Parameter	Client ID	Zenon ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Mercury Leachable	Blank Spike. Batch:	64201531	< 0.00005	0.00046	.0005	mg/L	89



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	Zenon ID: Client ID:	96017607 UNK-18	96017608 UNK-19	96017609 UNK-22	96017610 UNK-23
TCLPTC01	TCLP Extraction	15-JUL-1996	15-JUL-1996	15-JUL-1996	15-JUL-1996
Ag-L0042	Silver Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
As-L0042	Arsenic Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
Ba-L0042	Barium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
Cd-L0042	Cadmium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
Cr-L0042	Chromium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
Hg-L0310	Mercury Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
Pb-L0042	Lead Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
Se-L0042	Selenium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	12-JUL-1996
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	13-JUN-1996	13-JUN-1996	13-JUN-1996	13-JUN-1996



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	Zenon ID:	96017611	96017612	<del>96</del> 017613	
	Client ID:	UNK-24	UNK-25	UNK-26	
	······································				
TCLPTC01	TCLP Extraction	15-JUL-1996	15-JUL-1996	15-JUL-1996	
Ag-L0042	Silver Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
As-L0042	Arsenic Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
Ba-L0042	Barium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
Cd-L0042	Cadmium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
Cr-L0042	Chromium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
Hg-L0310	Mercury Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
Pb-L0042	Lead Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
Se-L0042	Selenium Leachable	12-JUL-1996	12-JUL-1996	12-JUL-1996	
	Matrix:	Soil	Soil	Soil	
	Sampled on:	13-JUN-19 <del>96</del>	13-JUN-1996	13-JUN-1996	



28-Jun-96 Page 1 of 8

#### ZENON LABORATORIES Certificate of Analysis

8577 Commerce Court Burnaby, B.C. Canada V5A 4N5 Tel 604 444 4808 Fax 604 444 4511

ACCPUATION AU I	Re	ported	To	:
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PHILIP ENVIRONMENTAL

Client Code P1

955 POWELL AVENUE RENTON, WASHINGTON

Attention Phone

: STAN MELO : (206) 227-0311

98055-2908

FAX

: (206) 227-6196

**Project Information:** 

Project ID

: 06191522

Requisition Forms:

Form 06110682 logged on 21-Jun-96 completed on 28-Jun-96

#### Remarks:

All organic data is blank corrected except for PCDD/F, Hi-res MS and CLP volatile analyses

'MDC' = Minimum Detectable Concentration, '<' = Less than MDC, '---' = Not analyzed

Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease

Organic analyses are not corrected for extraction recovery standards except for Isotope Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

All Groundwater samples are decanted and/or filtered prior to analysis

Milin

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 18th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Zenon for a period of 30 days from receipt of data or as per contract.

**ZENON Project Manager: Jack Wilson** 



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#### ANALYTICAL REPORT Form 06110682

Client :

PHILIP ENVIRONMENTAL

Project:	06191522	ENTAL			96015486 2-1-(2)	96015487 12-1-(13)	96015488 12-2-(14)	96015489 12-3-(14)
·			Zenon ID : Client ID :	METHOD BLANK				
Sparcode	Parameter	Unit	MDC					
SPECIAL OF	RGANICS							
HMX-TNTS	HMX	ug/g	1.0	< 1.0	3.6	< 1.0	< 1.0	< 1.0
RDX-TNTS	RDX	ug/g	1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0
TNB-TNTS	135-Trinitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
D012TNTS	1,3-Dinitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
T085TNTS	Tetryl	ug/g	0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
NO11TNTS	Nitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
TNT-TNTS	246-Trinitrotoluene	ug/g	0.3	< 0.3	5.5	< 0.3	< 0.3	< 0.3
A031TNTS	4-Amino-2,6-DNT	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
A032TNTS	2-Amino-4,6-DNT	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
D013TNTS	2,4-Dinitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
D014TNTS	2,6-Dinitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
N012TNTS	2-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
N013TNTS	3-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
N014TNTS	4-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
			Matrix : Sampled on:		Soil 96/06/20	Soil 96/06/20	Soil 96/06/20	Soil 96/06/20



28-Jun-96 Page 3 of 8

#### ANALYTICAL REPORT Form 06110682

Client

PHILIP ENVIRONMENTAL

Project

06191522

Project :	06191522						
			Zenon ID : Client ID :	96015490 12-4-(13)	96015491 12-5-(13)	96015492 12-6-(13)	96015493 12-7-(12)
Sparcode	Parameter	Unit	MDC		···		****
SPECIAL OR	GANICS						
HMX-TNTS	HMX	ug/g	1.0	< 1.0	< 1.0	< 1.0	< 1.0
RDX-TNTS	RDX	ug/g	1.0	< 1.0	< 1.0	< 1.0	< 1.0
TNB-TNTS	135-Trinitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
D012TNTS	1,3-Dinitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
ro85TNTS	Tetryl	ug/g	0.7	< 0.7	< 0.7	< 0.7	< 0.7
NOIITNTS	Nitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
INT-TNTS	246-Trinitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
A031TNTS	4-Amino-2,6-DNT	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
A032TNTS	2-Amino-4,6-DNT	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
DO13TNTS	2,4-Dinitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
DO14TNTS	2,6-Dinitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
NO12TNTS	2-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
NO13TNTS	3-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
N014TNTS	4-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	< 0.3
			Matrix :	Soil	Soil	Soil	Soil
			Sampled on:	96/06/20	96/06/20	96/06/20	96/06/20



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#### ANALYTICAL REPORT Form 06110682

Client:

PHILIP ENVIRONMENTAL

Project :	06191522		Zenon ID:	96015494	96015495	96015496	
Sparcode	Parameter	Unit	Client ID :	30-1-(4)	30-2-(5)	UNK-1-26	
SPECIAL ORG		,					
HMX-TNTS	HMX	ug/g	1.0	< 1.0	< 1.0	< 1.0	
RDX-TNTS	RDX	ug/g	1.0	< 1.0	< 1.0	< 1.0	
TNB-TNTS	135-Trinitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
D012TNTS	1,3-Dinitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
TO85TNTS	Tetryl	ug/g	0.7	< 0.7	< 0.7	< 0.7	
NO11TNTS	Nitrobenzene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
INT-TNTS	246-Trinitrotoluene	ug/g	0.3	< 0.3	< 0.3	3.1	
A031TNTS	4-Amino-2,6-DNT	ug/g	0.3	< 0.3	< 0.3	< 0.3	
A032TNTS	2-Amino-4,6-DNT	ug/g	0.3	< 0.3	< 0.3	< 0.3	
D013TNTS	2,4-Dinitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
D014TNTS	2,6-Dinitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
NO12TNTS	2-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
NO13TNTS	3-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
NO14TNTS	4-Nitrotoluene	ug/g	0.3	< 0.3	< 0.3	< 0.3	
			Matrix : Sampled on:	Soil 96/06/20	Soil 96/06/20	Soil 96/06/20	



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#### SPIKE SUMMARY Form 06110682

Parameter	Client ID	Zenon ID	Sample Conc.	Sample & Spike Conc.	Spike Amoun	Unit	Percent Recovery
нмх	Blank Spike. Batch:	64501524	< 1.0	2.5	2	ug/g	124
RDX	Blank Spike. Batch:	64501524	< 1.0	2.0	2	ug/g	98
135-Trinitrobenzene	Blank Spike. Batch:	64501524	< 0.3	1.8	2	ug/g	90
1,3-Dinitrobenzene	Blank Spike. Batch:	64501524	< 0.3	1.8	2	ug/g	89
246-Trinitrotoluene	Blank Spike. Batch:	64501524	< 0.3	1.5	2	ug/g	73
2,4-Dinitrotoluene	Blank Spike. Batch:	64501524	< 0.3	1.3	2	ug/g	67
HMX	UNK-1-26	96015496	< 1.0	2.6	2	ug/g	130
RDX	UNK-1-26	96015496	< 1.0	2.3	2	ug/g	114
135-Trinitrobenzene	UNK-1-26	96015496	< 0.3	2.5	2	ug/g	123
1,3-Dinitrobenzene	UNK-1-26	96015496	< 0.3	2.0	2	ug/g	100
246-Trinitrotoluene	UNK-1-26	96015496	3.1	5.4	2	ug/g	115
2,4-Dinitrotoluene	UNK-1-26	96015496	< 0.3	1.4	2	ug/g	70



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	Zenon ID:	96015486	96015487	96015488	96015489
	Client ID:	2-1-(2)	12-1-(13)	12-2-(14)	12-3-(14)
			· · · · · · · · · · · · · · · · · · ·		
HMX-TNTS	нмх	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
RDX-TNTS	RDX	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
TNB-TNTS	135-Trinitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
D012TNTS	1,3-Dinitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
TO85TNTS	Tetryl	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
NO11TNTS	Nitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
TNT-TNTS	246-Trinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
A031TNTS	4-Amino-2,6-DNT	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
A032TNTS	2-Amino-4,6-DNT	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
D013TNTS	2,4-Dinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
D014TNTS	2,6-Dinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
N012TNTS	2-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
N013TNTS	3-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
N014TNTS	4-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	20-JUN-1996	20-JUN-1996	20-JUN-1996	20-JUN-1996



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	Zenon ID:	96015490	96015491	96015492	96015493
	Client ID:	12-4-(13)	12-5-(13)	12-6-(13)	12-7-(12)
	•			·	
HMX-TNTS	нмх	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
RDX-TNTS	RDX	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
TNB-TNTS	135-Trinitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
D012TNTS	1,3-Dinitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
T085TNTS	Tetryl	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
N011TNTS	Nitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
TNT-TNTS	246-Trinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
A031TNTS	4-Amino-2,6-DNT	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
A032TNTS	2-Amino-4,6-DNT	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
D013TNTS	2,4-Dinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
D014TNTS	2,6-Dinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
N012TNTS	2-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
N013TNTS	3-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
N014TNTS	4-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	28-JUN-1996
	Matrix:	Soil	Soil	Soil	Soil
	Sampled on:	20-JUN-1996	20-JUN-1996	20-JUN-1996	20-JUN-1996



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	Zenon ID:	96015494	96015495	96015496	
	Client ID:	30-1-(4)	30-2-(5)	UNK-1-26	
HMX-TNTS	нмх	28-JUN-1996	28-JUN-1996	28-JUN-1996	
RDX-TNTS	RDX	28-JUN-1996	28-JUN-1996	28-JUN-1996	
TNB-TNTS	135-Trinitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
D012TNTS	1,3-Dinitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
T085TNTS	Tetryl	28-JUN-1996	28-JUN-1996	28-JUN-1996	
NOIITNTS	Nitrobenzene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
TNT-TNTS	246-Trinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
A031TNTS	4-Amino-2,6-DNT	28-JUN-1996	28-JUN-1996	28-JUN-1996	
A032TNTS	2-Amino-4,6-DNT	28-JUN-1996	28-JUN-1996	28-JUN-1996	
D013TNTS	2,4-Dinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
D014TNTS	2,6-Dinitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
N012TNTS	2-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
N013TNTS	3-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
N014TNTS	4-Nitrotoluene	28-JUN-1996	28-JUN-1996	28-JUN-1996	
	Matrix:	Soil	Soil	Soil	
	Sampled on:	20-JUN-1996	20-JUN-1996	20-JUN-1996	



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/12/96 Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110,000110.90 0011	000111	
Client ID: 1-1-(6)		Profile #: Lab ID: AA04917	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.440	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	
WTPH-HCID Soil		•	•
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates	· ·		
Bromobenzene	WTPH-D	123	%
Ortho-terphenyl	WTPH-D	155	%



WESTERN REGION

Philip Environmental Laboratory

To: MARC STRICKLER

# 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date. 00/19/90	11030011013044011		
Client ID: 1-2-(6)		Profile #: Lab ID: AA04918	W
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.510	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	0.0147	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	85.0 g	
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	137	%
Ortho-terphenyl	WTPH-D	Interference	%



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/12/96

Generator: UMATILLA ARMY

Work Order No.:

PO No.

Sample Collected: 06/19/96 Received Date: 06/19/96	Project Name: UMATILLA Project No: 96W011  Project No: 96W011  Project No.:  Job Number: 06		06191522	
Client ID: 1-3-(6)	Profile #: Lab ID: AA04919			
Analyte	Method	Result	Units -	
Silver	EPA 6010	< 0.010	mg/L	
Arsenic	EPA 6010	< 0.100	mg/L	
Barium	EPA 6010	0.205	mg/L	
. Cadmium	EPA 6010	< 0.005	mg/L	
Chromium	EPA 6010	0.0112	mg/L	
Mercury	EPA 7470	< 0.0008	mg/L	
Lead	EPA 6010	< 0.100	mg/L	
Selenium	EPA 6010	< 0.300	mg/L	
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	84.0 g		
Gasoline	WTPH-HCID	<20	mg/kg	
Diesel	WTPH-HCID	<50	mg/kg	
Motor Oil	WTPH-HCID	29000	mg/kg	
WTPH Diesel Surrogates	administration (IRE) and the authorized reserving the Edward Policy of Alberta and Alberta	آماد تارت <u>وط دا تا گافتان شها</u> ر بوزیاد از دارگذاشته این	Maria Maria Maria Maria	
Bromobenzene	WTPH-D	111	%	
Ortho-terphenyl	WTPH-D	168	%	



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## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/12/96

Sample Collected: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522	
Client ID: 1-4-(6)		Profile #: Lab ID: AA04920	
Analyte	Method	Result	Units and
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	1.03	mg/L
Cadmium	EPA 6010	0.0133	mg/L
Chromium	EPA 6010	0.0394	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	0.537	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	73.0 g	
Gasoline	WTPH-HCID	<200	mg/kg
Diesel	WTPH-HCID	<500	mg/kg
Motor Oil	WTPH-HCID	<1000	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	169	%
Ortho-terphenyl	WTPH-D	Interference	%



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Report Date: 07/12/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY
Project Name: UMATILLA
Project No: 06W011

Dip Number: 06191522

Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522	
Client ID: 1-5-(6)		Profile #: Lab ID: AA04921	
Analyte	Method	Result	· · · · · · Units
Siļver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.369	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	65.0 g	e e e e e e e e e e e e e e e e e e e
Gasoline	WTPH-HCID	<200	mg/kg
Diesel	WTPH-HCID	<500	mg/kg
Motor Oil WTPH Diesel Surrogates	WTPH-HCID	<1000	mg/kg
Bromobenzene	WTPH-D	57.2	%=
Ortho-terphenyl	WTPH-D	105	%



Philip Environmental Laboratory

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# Analytical Report

To: MARC STRICKLER

Report Date: 07/12/96 | Generator: UMATILLA ARMY | Work Order No.:
Sample Collected: 06/19/96 | Project Name: UMATILLA | P.O. No.:
Received Date: 06/19/96 | Project No: 96W011 | Job Number: 06191522

Profile #: Client ID: 1-6-(5) Lab ID: AA04922 Analyte Method Result Units Silver **EPA 6010** < 0.010 mg/L < 0.100 mg/L Arsenic **EPA 6010 Barium** EPA 6010 0.293 mg/L Cadmium mg/L EPA 6010 < 0.005 Chromium EPA 6010 < 0.010 mg/L Mercury **EPA 7470** 0.00175 mg/L Lead **EPA 6010** < 0.100 mg/L Selenium **EPA 6010** < 0.300 mg/L TCLP (Extraction Procedure) **EPA 1311** 45.0 g WTPH-HCID Soil Gasoline WTPH-HCID <200 mg/kg Diesel WTPH-HCID <500 mg/kg Motor Oil WTPH-HCID <1000 mg/kg WTPH Diesel Surrogates 36.2 Bromobenzene WTPH-D WTPH-D 63.0 Ortho-terphenyl



WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96 Received Date: 06/19/96	Generator: UMATILLA ARM Project Name: UMATILLA Project No: 96W011	Y Work Order No. P.O. No.: Job Number: 06	interest of the second
Client ID: 2-1-(2)		file #:	· •
Section 1985	Lat	<b>ID:</b> AA04923	
Analyte The State of the State	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.826	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	•
WTPH-HCID Soil	·		
Gasoline	WIPHEROD	23170 June 2	e mg/kg
Diesel-	WEPHELGID	2600	mg/kg
Motor Oil	WIREHOD	13000	mg/kg
WTPH Diesel Surrogates		The second secon	Action Control
Bromobenzene	WTPH-D	144	%
Ortho-terphenyl	WTPH-D	Interference	%



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#### **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96 Received Date: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110Ject 140. 96 W011	Job Ivaliloor.	.01,1022
Client ID: 3-1-(3)		Profile #:	
. +	· •.	Lab ID: AA04924	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	1.33	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	0.0723	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	0.381	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<18	ug/kg
Methanol	EPA 8015	<18	ug/kg
Isobutyl Alcohol	EPA 8015	<2	ug/kg
N-Butyl Alcohol	EPA 8015	<9	ug/kg
Pyridine	EPA 8015	<2	ug/kg
2-Ethoxyethanol	EPA 8015	<2	ug/kg
Cyclohexanone	EPA 8015	<2	ug/kg
Nitrobenzene	EPA 8015	19 14	ug/kg // <sup>™</sup>
o-Cresol	EPA 8015	7.0	ug/kg
p-Cresol	EPA 8015	<2	ug/kg
m-Cresol	EPA 8015	<2	ug/kg
8015 F-Listed Solvents Surrogat			•
Bromobenzene	EPA 8015	80	%
8260 F-LISTED SOLVENTS IN		<b>~</b>	
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg



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Report Date: 07/12/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 0	6191522	
Client ID: 3-1-(3)	Profile #:  Lab ID: AA04924			
Analyte	Method	Result	Units 🐇	
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg	
Toluene	EPA 8260	11	ug/kg	
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg	
Tetrachloroethene	EPA 8260	<1	ug/kg	
Chlorobenzene	EPA 8260	<1	ug/kg	
Ethylbenzene	EPA 8260	6.7	ug/kg	
m,p-Xylene	EPA 8260	16	ug/kg	
o-Xylene	EPA 8260	17	ug/kg	
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg	
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg	
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg	
EPA 8260/624 Surrogate			-	
1,2-Dichlorethane-D4	EPA 8260	130	%	
Toluene-D8	EPA 8260	<b>79</b>	%	
4-Bromofluorobenzene	EPA 8260	84	%	
WTPH-HCID Soil				
Gasoline	WTPH-HCID	<200	mg/kg	
Diesel	WTPH-HCID	<500	mg/kg	
Motor Oil	WTPH-HCID	62000	mg/kg 🦙	
WTPH Diesel Surrogates	A STATE OF THE STA	•	The second second	
Bromobenzene	WTPH-D	124	%	
Ortho-terphenyl	WTPH-D	Interference	%	
TX by Dohrmann	9076	<500	ppm	



Philip Environmental Laboratory

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#### **Analytical Report**

Report Date: 07/12/96 Generator: UMATILLA ARMY

Sample Collected: 06/19/96 Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 6-1-(3)		Profile #:	
	Lab ID: AA04925		
Analyte	Method	Result	Units
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Py <del>ri</del> dine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
n-Cresol 8015 F-Listed Solvents Surrogate	EPA 8015	<5	ug/kg
Bromobenzene	EPA 8015	100	%
3260 BTEX SOLID			
Benzene	EPA 8260	230	ug/kg PPB
Toluene	EPA 8260	350	ug/kg
Ethylbenzene	EPA 8260	170	ug/kg
n,p-Xylene	EPA 8260	890	ug/kg
-Xylene	EPA 8260	480	ug/kg
260 F-LISTED SOLVENTS IN SO	LIDS		
Ethyl Ether	EPA 8260	<22	ug/kg
,1,2-Trichlorotrifluorethane	EPA 8260	<22	ug/kg
Acetone	EPA 8260	<22	ug/kg
Carbon Disulfide	EPA 8260	<4	ug/kg
Methylene Chloride	EPA 8260	<22	ug/kg
-Butanone (MEK)	EPA 8260	<22	ug/kg
,1,1-Trichloroethane	EPA 8260	<4	ug/kg
Carbon Tetrachloride	EPA 8260	<4	ug/kg
Senzene	EPA 8260	230	ug/kg
richloroethene	EPA 8260	<9	ug/kg
-Nitropropane	EPA 8260	<22	ug/kg
-Methyl-2-Pentanone (MIBK)	EPA 8260	<22	ug/kg
oluene	EPA 8260	350	ug/kg
,1,2-Trichloroethane	EPA 8260	<4	ug/kg



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To: MARC STRICKLER

## **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Anglyte		Method		Dogult
	.,		Lab ID: AA(	
Client ID:	6-1-(3)		Profile #:	

Method	Result	Units
EPA 8260	<4	ug/kg
EPA 8260	<4	ug/kg
EPA 8260	170	ug/kg
EPA 8260	890	ug/kg
EPA 8260	480	ug/kg
EPA 8260	<4	ug/kg
EPA 8260	<4	ug/kg
EPA 8260	<4	ug/kg
EPA 8260	98	%
EPA 8260	99	%
EPA 8260	98	%
WTPH-HCID	<2000	mg/kg
	EPA 8260	EPA 8260 <4 EPA 8260

+Diesel	WIPH-HCID	490000	maka .
Motor Oil	WTPH-HCID	<10000	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	Interference	·· %
Ortho-terphenyl	WTPH-D	Interference	%



WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/12/96

Received Date: 06/19/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	7-1-(10)		Profile #	:
			Lab ID:	AA04926

4 - 4 ·		200 200 1110 1720	
Analyte	Method	Result	Units
8015 F-Listed Solvents in Solids			ζ,
Ethyl Acetate	EPA 8015	<100	ug/kg
Methanol	EPA 8015	<100	ug/kg
Isobutyl Alcohol	EPA 8015	<10	ug/kg ···
N-Butyl Alcohol	EPA 8015	<50	ug/kg
Pyridine	EPA 8015	<10	ug/kg
2-Ethoxyethanol	EPA 8015	<10	ug/kg
Cyclohexanone	EPA 8015	<10	ug/kg
Nitrobenzene	EPA 8015	<10	ug/kg
o-Cresol	EPA 8015	<10	ug/kg
p-Cresol	EPA 8015	<10	ug/kg
m-Cresol	EPA 8015	<10	ug/kg
8015 F-Listed Solvents Surrogate			***
Bromobenzene	EPA 8015	86	%
8260 F-LISTED SOLVENTS IN SO			?
Ethyl Ether	EPA 8260	<10	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<10	ug/kg
Acetone	EPA 8260	<10	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<10	ug/kg
2-Butanone (MEK)	EPA 8260	<10	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
Benzene	EPA 8260	2.4	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
2-Nitropropane	EPA 8260	<10	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<10	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	uig/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg



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Report Date: 07/12/96

Received Date: 06/19/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Bate. 00/15/50	1103001101904011		
Client ID: 7-1-(10)		Profile #: Lab ID: AA04926	
Analyte	Method	Result	Units
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<b>2</b>	ug/kg
EPA 8260 Soil VOA\Volatiles		_	- <b>33</b>
Dichlorodifluoromethane	EPA 8260	<2	ug/kg
Chloromethane	EPA 8260	<2	ug/kg
Vinyl chloride	EPA 8260	<2	ug/kg
Bromomethane	EPA 8260	<2	ug/kg
Chloroethane	EPA 8260	<2	ug/kg
Trichlorofluoromethane	EPA 8260	<2	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<10	ug/kg
1,1-Dichloroethene	EPA 8260	<2	ug/kg
Ethyl Ether	EPA 8260	<10	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<10	ug/kg
Acetone	EPA 8260	<10	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
2-Methylpentane	EPA 8260	<10	ug/kg
Methylene Chloride	EPA 8260	<10	ug/kg
3-Methylpentane	EPA 8260	<10	ug/kg
Acrylonitrile	EPA 8260	<10	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<2	ug/kg
1,1-Dichloroethane	EPA 8260	<2	ug/kg
Vinyl Acetate	EPA 8260	<2	ug/kg
Methylcyclopentane	EPA 8260	<2	ug/kg
Acrolien	EPA 8260	<40	ug/kg
2,2-Dichloropropane	EPA 8260	<2	ug/kg
cis-1,2-Dichloroethene	EPA 8260	<2	ug/kg
2-Butanone (MEK)	EPA 8260	<10	ug/kg
Bromochloromethane	EPA 8260	<2	ug/kg
Tetrahydrofuran	EPA 8260	<10	ug/kg
Chloroform	EPA 8260	<2	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
1,1-Dichloropropene	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
1,2-Dichloroethane	EPA 8260	<2	ug/kg



**Philip Environmental Laboratory** 955 Powell Avenue S.W.

Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196 To: MARC STRICKLER

## **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY
Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 7-1-(10)		Profile #: Lab ID: AA04926	
Analyte	Method	Result	Units
Benzene	EPA 8260	2.4	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
1,2-Dichloropropane	EPA 8260	<2	ug/kg
Dibromomethane	EPA 8260	<2	ug/kg
Bromodichloromethane	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<10	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<2	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<2	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<10	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,2,3-Trichloropropane	EPA 8260	<2	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
1,3-Dichloropropane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
2-Hexanone	EPA 8260	<10	ug/kg
1,2-Dibromoethane	EPA 8260	<2	ug/kg
Dibromochloromethane	EPA 8260	<2	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<6	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
Styrene	EPA 8260	<2	ug/kg
Bromoform	EPA 8260	<2	ug/kg
sopropylbenzene	EPA 8260	<2	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<6	ug/kg
Bromobenzene	EPA 8260	<2	ug/kg
n-propylbenzene	EPA 8260	<2	ug/kg
,3,5-Trimethylbenzene	EPA 8260	4.8	ug/kg
2-Chlorotoluene	EPA 8260	<2	ug/kg
-Chlorotoluene	EPA 8260	<2	ug/kg
ert-Butylbenzene	EPA 8260	<2	ug/kg
,2,4-Trimethylbenzene	EPA 8260	<2	ug/kg



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## **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date. 00/19/90	110ject 110. 90 W 011	1	
Client ID: 7-1-(10)		Profile #: Lab ID: AA04926	
Analyte Analyte	Method	Result	Units ***
sec-Butylbenzene	EPA 8260	4.0	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
n-Butylbenzene	EPA 8260	<2	ug/kg
p-Isopropyltoluene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	89	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<2	ug/kg
Hexachlorobutadiene	EPA 8260	<2	ug/kg
Naphthalene	EPA 8260	<10	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<2.	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	97	<b>%</b>
Toluene-D8	EPA 8260	98	%
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	97	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908

TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

7-1-(10)

Profile #:

Cheft ID: 7-1-(10)		Lab ID: AA04926	
Analyte	Method	Result	Units
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg



Philip Environmental Laboratory

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## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Froject No. 96 WOTT	300 14dinoer. 001	71322
Client ID: 7-1-(10)		Profile #:	
		Lab ID: AA04926	
Analyte	Method	Result	Units
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	68	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate		.27	
2-Fluorophenol	EPA 8270	26	<b>%</b>
Phenol-d5	EPA 8270	28	%
Nitrobenzene-d5	EPA 8270	39	%
2-Fluorobiphenyl	EPA 8270	39	%
2,4,6-Tribromophenol	EPA 8270	25	%
Terphenyl-d14 BENZENE	EPA 8270	35	%
71-43-2 Benzene	EPA 8260	<1	ug/L
TX by Dohrmann	9076	<500	ppm



WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Generator: UMATILLA ARMY ... Report Date: 07/12/96 Project Name: UMATILLA Sample Collected: 06/19/96

Work Order No.: P.O. No.:

Received Date: 06/19/96	Project No: 96W011	***	Job Number: 061	91522
Client ID: 7-2-(9)		Profile		
		Lab ID	: AA04927	
Analyte	Method	e de la Marie	Result	Units (
Mercury	EPA 6010	·	< 0.057	mg/L
8015 F-Listed Solvents in Solids		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Ethyl Acetate	EPA 8015		<100	ug/kg
. Methanol	EPA 8015		<100	ug/kg -
Isobutyl Alcohol	EPA 8015		<10	ug/kg
N-Butyl Alcohol	EPA 8015		<50	ug/kg
Pyridine	EPA 8015		<10	ug/kg
2-Ethoxyethanol	EPA 8015		<10	ug/kg
Cyclohexanone	EPA 8015	•	<10	ug/kg
Nitrobenzene	EPA 8015		<10	ug/kg
o-Cresol	EPA 8015		<10	ug/kg
p-Cresol	EPA 8015		<10	ug/kg
m-Cresol	EPA 8015		<10	ug/kg
8015 F-Listed Solvents Surrogate				
Bromobenzene	EPA 8015		81	%
8260 F-LISTED SOLVENTS IN SO				_
Ethyl Ether	EPA 8260		<10	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	* * * * *	<10	ug/kg
Acetone	EPA 8260		<10	ug/kg
Carbon Disulfide	EPA 8260		<2	ug/kg
Methylene Chloride	EPA 8260		<10	ug/kg
2-Butanone (MEK)	EPA 8260		<10	ug/kg
1,1,1-Trichloroethane	EPA 8260		<2	ug/kg
Carbon Tetrachloride	EPA 8260		<2	ug/kg
Benzene	EPA 8260		<2	ug/kg
Trichloroethene	EPA 8260		<4	ug/kg
2-Nitropropane	EPA 8260		<10	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260		<10	ug/kg
Toluene	EPA 8260		<4	ug/kg
1,1,2-Trichloroethane	EPA 8260		<2	ug/kg
Tetrachloroethene	EPA 8260		<2	ug/kg
Chlorobenzene	EPA 8260		<2	ug/kg
Ethylbenzene	EPA 8260		<2	ug/kg
m,p-Xylene	EPA 8260		2.1	ug/kg
o-Xylene	EPA 8260		2.3	ug/kg



BY-PRODUCT RECOVERY GROUP WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/12/96 Project Name: UMATILLA Sample Collected: 06/19/96

Received Date: 06/19/96

Project No: 96W011

Work Order No.: Generator: UMATILLA ARMY --

P.O. No.:

Client ID: 7-2-(9)		Profile #: Lab ID: AA04927	
Analyte	Method	n en e we Result e e	Units
1,3-Dichlorobenzene	EPA 8260	<2.	ug/kg
1,4-Dichlorobenzene	EPA 8260	< 2 ⋅	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2 ⋅	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<2	ug/kg
Chloromethane	EPA 8260	<2	ug/kg
Vinyl chloride	EPA 8260	<2 ⋅	ug/kg
Bromomethane	EPA 8260	<2	ug/kg
Chloroethane	EPA 8260	<2	ug/kg
Trichlorofluoromethane	EPA 8260	<2	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<10	ug/kg
1,1-Dichloroethene	EPA 8260	· <2	ug/kg
Ethyl Ether	EPA 8260	<10	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<10	ug/kg
Acetone	EPA 8260	<10	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
2-Methylpentane	EPA 8260	<10	ug/kg
Methylene Chloride	EPA 8260	<10	ug/kg
3-Methylpentane	EPA 8260	<10	ug/kg
Acrylonitrile	EPA 8260	<10	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<2	ug/kg
1,1-Dichloroethane	EPA 8260	<2	ug/kg
Vinyl Acetate	EPA 8260	<2	ug/kg
Methylcyclopentane	EPA 8260	<2	ug/kg
Acrolien	EPA 8260	<41	ug/kg
2,2-Dichloropropane	EPA 8260	<2	ug/kg
cis-1,2-Dichloroethene	EPA 8260	<2	ug/kg
2-Butanone (MEK)	EPA 8260	<10	ug/kg
Bromochloromethane	EPA 8260	<2	ug/kg
Tetrahydrofuran	EPA 8260	<10	ug/kg
Chloroform	EPA 8260	<2	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
1,1-Dichloropropene	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg



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FAX 206.227.6196

4-Chlorotoluene

tert-Butylbenzene

#### **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Lab ID: AA04927

Job Number: 06191522

Client ID:	7-2-(9)	Profile #:
CHULL ID.	1-20-(2)	

Analyte	Method	Result	Units
1,2-Dichloroethane	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2 ⋅	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
1,2-Dichloropropane	EPA 8260	<2	ug/kg
Dibromomethane	EPA 8260	<2	ug/kg
Bromodichloromethane	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<10	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<2	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<2	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<10	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,2,3-Trichloropropane	EPA 8260	<2	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
1,3-Dichloropropane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
2-Hexanone	EPA 8260	<10	ug/kg
1,2-Dibromoethane	EPA 8260	<2 ⋅	ug/kg
Dibromochloromethane	EPA 8260	<2	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<6	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	2.1	ug/kg
o-Xylene	EPA 8260	2.3	ug/kg
Styrene	EPA 8260	<2	ug/kg
Bromoform	EPA 8260	<2	ug/kg
Isopropylbenzene	EPA 8260	<2	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<6	ug/kg
Bromobenzene	EPA 8260	<2	ug/kg
n-propylbenzene	EPA 8260	3.7	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	8.8	ug/kg
2-Chlorotoluene	EPA 8260	<2	ug/kg
		_	

EPA 8260

EPA 8260

ug/kg

ug/kg

<2

2.3



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To: MARC STRICKLER

#### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/12/96

Project Name: UMATILLA Sample Collected: 06/19/96

Received Date: 06/19/96 Project No: 96W011

Work Order No.: P.O. No.:

Job Number: 06191522

Profile #: Client ID: 7-2-(9) Lab ID: AA04927

	Zalo ZD · MIOT/Z/			
Analyte	Method	Result	Units	
1,2,4-Trimethylbenzene	EPA 8260	20	ug/kg	
sec-Butylbenzene	EPA 8260	<2	ug/kg	
1,3-Dichlorobenzene	EPA 8260	< <2	ug/kg	
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg	
n-Butylbenzene	EPA 8260	<2	ug/kg	
p-Isopropyltoluene	EPA 8260	<2	ug/kg	
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg	
1,2-Dibromo-3-chloropropane	EPA 8260	<10	ug/kg	
1,2,4-Trichlorobenzene	EPA 8260	<2	ug/kg	
Hexachlorobutadiene	EPA 8260	<2	ug/kg	
Naphthalene	EPA 8260	<10	ug/kg	
1,2,3-Trichlorobenzene	EPA 8260	<2	ug/kg	
EPA 8260/624 Surrogate				
1,2-Dichlorethane-D4	EPA 8260	100	%	
Toluene-D8	EPA 8260	99	%	
4-Bromofluorobenzene	EPA 8260	100	%	
EPA 8270 Solid			_	
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg	
Analine	EPA 8270	<167	ug/kg	
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg	
Phenol	EPA 8270	<33	ug/kg	
2-Chlorophenol	EPA 8270	<33	ug/kg	
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg	
1,4-Dichlorobenzene	EPA 8270	<33	, ug/kg	
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg	
Benzyl alcohol	EPA 8270	<67	ug/kg	
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg	
2-Methylphenol	EPA 8270	<33	ug/kg	
Acetophenone	EPA 8270	<167	ug/kg	
Hexachloroethane	EPA 8270	<33	ug/kg	
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg	
4-Methylphenol	EPA 8270	<33	ug/kg	
Nitrobenzene	EPA 8270	<33	ug/kg	
Isophorone	EPA 8270	<33	ug/kg	
2-Nitrophenol	EPA 8270	<33	ug/kg	



WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/12/96

Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Client ID: 7-2-(9)		Profile #: Lab ID: AA04927	
Analyte	Method	Result	Units
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
L-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg
Diethylphthalate	EPA 8270	<33	ug/kg
-Nitroaniline	EPA 8270	<167	ug/kg
,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg



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Renton, WA 98055-2908-TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Floject No. 96 WOII	300 Number: 00171322	
Client ID: 7-2-(9)		Profile #: Lab ID: AA04927	<b>4.</b>
Analyte	Method	Result	Units with
Phenanthrene	EPA 8270		
Anthracene	EPA 8270	<33	ug/kg
		<33	ug/kg
Di-n-butylphthalate Fluoranthene	EPA 8270	<33	ug/kg
	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	⊲3	ug/kg
2-Fluorophenol	EPA 8270	36	%
Phenol-d5	EPA 8270	42	%
Nitrobenzene-d5	EPA 8270	51	%
2-Fluorobiphenyl	EPA 8270	49	%
2,4,6-Tribromophenol	EPA 8270	61	%
Terphenyl-d14 BENZENE	EPA 8270	83	%
71-43-2 Benzene	EPA 8260	<1	ug/L
TX by Dohrmann	9076	<500	ppm



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/12/96	Generator: UMATILLA ARMY	Work Order No.:
	Project Name: UMATILLA	P.O. No.:
Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522

Client ID: 7-3-(9)   Profile #:   Lab ID: AA04928	
•	in a file
Silver EPA 6010 < 0.010 mg/L	
Arsenic EPA 6010 < 0.100 mg/L	
Barium EPA 6010 1.74 mg/L	·,
Cadmium EPA 6010 < 0.005 mg/L	٠.
Chromium EPA 6010 < 0.010 mg/L	
Mercury EPA 7470 < 0.0008 mg/L	
Lead EPA 6010 2.70 mg/L	
Selenium EPA 6010 < 0.300 mg/L	
TCLP (Extraction Procedure) EPA 1311 100 g	
8015 F-Listed Solvents in Solids	
Ethyl Acetate EPA 8015 <100 ug/kg	
Methanol EPA 8015 <100 ug/kg	
Isobutyl Alcohol EPA 8015 <10 ug/kg	
N-Butyl Alcohol EPA 8015 <50 ug/kg	
Pyridine EPA 8015 <10 ug/kg	
2-Ethoxyethanol EPA 8015 <10 ug/kg	
Cyclohexanone EPA 8015 <10 ug/kg	
Nitrobenzene EPA 8015 <10 ug/kg	
o-Cresol EPA 8015 <10 ug/kg	
p-Cresol EPA 8015 <10 ug/kg	
m-Cresol EPA 8015 <10 ug/kg	
8015 F-Listed Solvents Surrogate	
Bromobenzene EPA 8015 71 %	
8260 F-LISTED SOLVENTS IN SOLIDS	
Ethyl Ether EPA 8260 <9 ug/kg	
1,1,2-Trichlorotrifluorethane EPA 8260 <9 ug/kg	
Acetone EPA 8260 450 ug/kg	
Carbon Disulfide EPA 8260 <2 ug/kg	
Methylene Chloride EPA 8260 <9 ug/kg	
2-Butanone (MEK) EPA 8260 52 ug/kg	
1,1,1-Trichloroethane EPA 8260 <2 ug/kg	
Carbon Tetrachloride EPA 8260 <2 ug/kg	
Benzene EPA 8260 <2 ug/kg	
Trichloroethene EPA 8260 <3 ug/kg	
2-Nitropropane EPA 8260 <9 ug/kg	



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/12/96

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 06	191522
Client ID: 7-3-(9)		Profile #: Lab ID: AA04928	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<9	ug/kg
Toluene	EPA 8260	⋖	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<2	ug/kg
Chloromethane	EPA 8260	<2	ug/kg
Vinyl chloride	EPA 8260	<2	ug/kg
Bromomethane	EPA 8260	<2	ug/kg
Chloroethane	EPA 8260	<2	ug/kg
Trichlorofluoromethane	EPA 8260	<2	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<9	ug/kg
1,1-Dichloroethene	EPA 8260	<2	ug/kg
Ethyl Ether	EPA 8260	<9	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<9	ug/kg
Acetone	EPA 8260	450	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
2-Methylpentane	EPA 8260	<9	ug/kg
Methylene Chloride	EPA 8260	<9	ug/kg
3-Methylpentane	EPA 8260	<9	ug/kg
Acrylonitrile	EPA 8260	<9	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<2	ug/kg
1,1-Dichloroethane	EPA 8260	<2	ug/kg
Vinyl Acetate	EPA 8260	<2	ug/kg
Methylcyclopentane	EPA 8260	<2	ug/kg
Acrolien	EPA 8260	<34	ug/kg
2,2-Dichloropropane	EPA 8260	<2	ug/kg
1 1 -			



Philip Environmental Laboratory

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196 To: MARC STRICKLER

# **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

P.O. No.:

Received Date: 06/19/96

Project No: 96W011

Job Number: 06191522

Work Order No.:

Client ID: 7-3-(9) Profile #:

Lab ID: AA04928

		220 220 70104720	
Analyte	Method	Result	Units
cis-1,2-Dichloroethene	EPA 8260	<2	ug/kg
2-Butanone (MEK)	EPA 8260	52	ug/kg
Bromochloromethane	EPA 8260	<2	ug/kg
· Tetrahydrofuran	EPA 8260	<9	ug/kg
Chloroform	EPA 8260	<2	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2 ⋅	ug/kg
1,1-Dichloropropene	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
1,2-Dichloroethane	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
1,2-Dichloropropane	EPA 8260	<2	ug/kg
Dibromomethane	EPA 8260	<2	ug/kg
Bromodichloromethane	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	. <9	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<2	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<2	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<9	ug/kg
Toluene	EPA 8260	⋖	ug/kg
1,2,3-Trichloropropane	EPA 8260	<2	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
1,3-Dichloropropane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
2-Hexanone	EPA 8260	<9	ug/kg
1,2-Dibromoethane	EPA 8260	<2	ug/kg
Dibromochloromethane	EPA 8260	<2	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<5	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
Styrene	EPA 8260	<2	ug/kg
Bromoform	EPA 8260	<2	ug/kg



Philip Environmental Laboratory
955 Powell Avenue S W

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY
Project Name: UMATILLA

Project No: 96W011

Work Order No.: P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	J6191522
Client ID: 7-3-(9)		Profile #: Lab ID: AA04928	
Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<2	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<5	ug/kg
Bromobenzene	EPA 8260	. 2	ug/kg
n-propylbenzene	EPA 8260	<b>√</b>	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<2	ug/kg
2-Chlorotoluene	EPA 8260	<u> </u>	ug/kg
4-Chlorotoluene	EPA 8260	<u>~</u>	ug/kg
tert-Butylbenzene	EPA 8260	< <u>2</u>	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	< <u>2</u>	ug/kg
sec-Butylbenzene	EPA 8260		ug/kg
1,3-Dichlorobenzene	EPA 8260	<b>Q</b>	ug/kg
1,4-Dichlorobenzene	EPA 8260	<b>2</b>	ug/kg
n-Butylbenzene	EPA 8260	<b>2</b>	ug/kg
p-Isopropyltoluene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<b>4</b>	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<9	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<2	ug/kg
Hexachlorobutadiene	EPA 8260	<2	ug/kg
Naphthalene	EPA 8260	<9	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	100	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene	EPA 8260	100	%
EPA 8270 Solid			
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



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#### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:	7-3-(9)		Profile #:

Lab ID: AA04928 Analyte Units Method Result 2-Methylphenol **EPA 8270** <33 ug/kg Acetophenone **EPA 8270** <167 ug/kg ug/kg Hexachloroethane **EPA 8270** <33 N-Nitroso-di-n-propylamine **EPA 8270** <33 ug/kg 4-Methylphenol **EPA 8270** <33 ug/kg Nitrobenzene **EPA 8270** <33 ug/kg <33 Isophorone **EPA 8270** ug/kg 2-Nitrophenol EPA 8270 <33 ug/kg 2,4-Dimethylphenol **EPA 8270** <33 ug/kg bis(2-Chloroethoxy)methane **EPA 8270** <33 ug/kg 2,4-Dichlorophenol **EPA 8270** <33 ug/kg 1,2,4-Trichlorobenzene **EPA 8270** <33 ug/kg Naphthalene **EPA 8270** <33 ug/kg 4-Chloroaniline **EPA 8270** <67 ug/kg Hexachlorobutadiene **EPA 8270** <33 ug/kg Benzoic Acid **EPA 8270** <167 ug/kg 4-Chloro-3-methylphenol **EPA 8270** <67 ug/kg **EPA 8270** 2-Methylnaphthalene <33 ug/kg Hexachlorocyclopentadiene **EPA 8270** <33 ug/kg 2,4,6-Trichlorophenol **EPA 8270** <33 ug/kg 2,4,5-Trichlorophenol EPA 8270 <33 ug/kg 2-Chloronaphthalene **EPA 8270** <33 ug/kg **EPA 8270** 2-Nitroaniline <67 ug/kg Acenaphthylene **EPA 8270** <33 ug/kg Dimethylphthalate **EPA 8270** <33 ug/kg 2,6-Dinitrotoluene **EPA 8270** <33 ug/kg Acenaphthene **EPA 8270** <33 ug/kg 3-Nitroaniline **EPA 8270** <167 ug/kg 2,4-Dinitrophenol **EPA 8270** <167 ug/kg Dibenzofuran **EPA 8270** <167 ug/kg 2,4-Dinitrotoluene **EPA 8270** <33 ug/kg 4-Nitrophenol **EPA 8270** <33 ug/kg Fluorene **EPA 8270** <33 ug/kg 4-Chlorophenyl-phenylether **EPA 8270** <33 ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908-TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 7-3-(9)		Profile #:	
		Lab ID: AA04928	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	71	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	28	%
Phenol-d5	EPA 8270	29	%
Nitrobenzene-d5	EPA 8270	35	%
2-Fluorobiphenyl	EPA 8270	39	%
2,4,6-Tribromophenol	EPA 8270	26	%
Terphenyl-d14 BENZENE	EPA 8270	41	%
71-43-2 Benzene	EPA 8260	<1	ug/L



WESTERN REGION To: MARC STRICKLER

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#### **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

7-3-(9)

Profile #:

Lab ID: AA04928

Analyte

Method

Result

Units

17.

TX by Dohrmann

9076

<500

ppm



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#### **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96 Received Date: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

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Client ID: 7-4-(9)		Profile #:	
wy and a second		Lab ID: AA04929	n, i
Analyte	Method	Result	Units 🤲
8015 F-Listed Solvents in Solids		•	
Ethyl Acetate	EPA 8015	<100	ug/kg 🔅
Methanol	EPA 8015	<100	ug/kg
Isobutyl Alcohol	EPA 8015	<10	ug/kg
N-Butyl Alcohol	EPA 8015	<50	ug/kg
Pyridine	EPA 8015	<10	ug/kg
2-Ethoxyethanol	EPA 8015	<10	ug/kg
Cyclohexanone	EPA 8015	<10	ug/kg
Nitrobenzene	EPA 8015	<10	ug/kg
o-Cresol	EPA 8015	<10	ug/kg
p-Cresol	EPA 8015	<10	ug/kg
m-Cresol	EPA 8015	<10	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	39	%
8260 F-LISTED SOLVENTS IN SO			
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	⋖	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
n,p-Xylene	EPA 8260	<1	ug/kg
-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/12/96
Sample Collected: 06/19/96
Received Date: 06/19/96
Project Name: UMATILLA ARMY
Project Name: UMATILLA
Project No: 96W011

Work Order No.:
P.O. No.:
Job Number: 06191522

Profile #: Client ID: 7-4-(9) Lab ID: AA04929 Analyte Method Result Units **EPA 8260** ug/kg 1,4-Dichlorobenzene <1 **EPA 8260** <1 1.2-Dichlorobenzene ug/kg EPA 8260 Soil VOA\Volatiles Dichlorodifluoromethane **EPA 8260** <1 ug/kg Chloromethane **EPA 8260** <1 ug/kg Vinvl chloride **EPA 8260** <1 ug/kg Bromomethane **EPA 8260** <1 ug/kg Chloroethane **EPA 8260** <1 ug/kg Trichlorofluoromethane **EPA 8260** <1 ug/kg 1.1-DichloroTrifluoroethane **EPA 8260** <7 ug/kg 1.1-Dichloroethene **EPA 8260** <1 ug/kg Ethvl Ether **EPA 8260** <7 ug/kg 1.1.2-Trichlorotrifluoroethane EPA 8260 <7 ug/kg Acetone EPA 8260 <7 ug/kg Carbon Disulfide **EPA 8260** <1 ug/kg 2-Methylpentane EPA 8260 <7 ug/kg Methylene Chloride EPA 8260 <7 ug/kg 3-Methylpentane **EPA 8260** <7 ug/kg <7 Acrylonitrile EPA 8260 ug/kg trans-1,2-Dichloroethene **EPA 8260** <1 ug/kg 1,1-Dichloroethane **EPA 8260** <1 ug/kg Vinyl Acetate **EPA 8260** <1 ug/kg Methylcyclopentane **EPA 8260** <1 ug/kg <29 **EPA 8260** ug/kg Acrolien 2,2-Dichloropropane **EPA 8260** <1 ug/kg cis-1,2-Dichloroethene EPA 8260 <1 ug/kg 2-Butanone (MEK) **EPA 8260** <7 ug/kg Bromochloromethane EPA 8260 <1 ug/kg <7 ug/kg Tetrahydrofuran EPA 8260 <1 Chloroform EPA 8260 ug/kg 1,1,1-Trichloroethane EPA 8260 <1 ug/kg 1,1-Dichloropropene **EPA 8260** <1 ug/kg Carbon Tetrachloride <1 ug/kg EPA 8260 1,2-Dichloroethane **EPA 8260** <1 ug/kg



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# **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 7-4-(9)	Profile #: Lab ID: AA04929		
Analyte	Method	Result	Units 🐇
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	⋖	ug/kg
1,2-Dichloropropane	EPA 8260	<1	ug/kg
· Dibromomethane	EPA 8260	<1	ug/kg
Bromodichloromethane	EPA 8260	<1	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
1,3-Dichloropropane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
2-Hexanone	EPA 8260	<7	ug/kg
1,2-Dibromoethane	EPA 8260	<1	ug/kg
Dibromochloromethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
Styrene	EPA 8260	<1	ug/kg
Bromoform	EPA 8260	<1	ug/kg
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg



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Sample Collected: 06/19/96

Received Date: 06/19/96

# **Analytical Report**

Report Date: 07/12/96 | Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.: .

P.O. No.:

Client ID: 7-4-(9)		Profile #:	
(>)	•	Lab ID: AA04929	
Analyte	Method	Result	Units
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<7	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	100	%
N-Nitrosodimethylamine	EPA 8270	. <167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
ois(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
- Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
sophorone	EPA 8270	<33	ug/kg
-Nitrophenol	EPA 8270	<33	ug/kg
,4-Dimethylphenol	EPA 8270	<33	ug/kg



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# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/12/96 Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

P.O. No.:

Work Order No.:

Client ID: 7-4-(9)		Profile #: Lab ID: AA04929	
Analyte	Method	Result	Units
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	· <33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	. <67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/12/96

Received Date: 06/19/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.: Job Number: 06191522

Client ID: 7-4-(9) Profile #:

7 · (7)		Lab ID: AA04929		
Analyte	Method	Result	Units	
Anthracene	EPA 8270	<33	ug/kg	
Di-n-butylphthalate	EPA 8270	49	ug/kg	
Fluoranthene	EPA 8270	<33	ug/kg	
Benzidine	EPA 8270	<33	ug/kg	
Pyrene	EPA 8270	<33	ug/kg	
Butylbenzylphthalate	EPA 8270	<33	ug/kg	
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg	
Benzo[a]anthracene	EPA 8270	<67	ug/kg	
Chrysene	EPA 8270	<33	ug/kg	
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg	
Di-n-octylphthalate	EPA 8270	<33	ug/kg	
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg	
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg	
Benzo[a]pyrene	EPA 8270	<33	ug/kg	
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg	
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg	
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg	
EPA 8270/625 Surrogate				
2-Fluorophenol	EPA 8270	25	%	
Phenol-d5	EPA 8270	26	%	
Nitrobenzene-d5	EPA 8270	33	%	
2-Fluorobiphenyl	EPA 8270	35	%	
2,4,6-Tribromophenol	EPA 8270	24	%	
Terphenyl-d14	EPA 8270	33	%	
BENZENE				
71-43-2 Benzene	EPA 8260	7.1	ug/L	
TX by Dohrmann	9076	<500	ppm	



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Report Date: 07/12/96

Sample Collected: 06/19/96 Received Date: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date. 00/19/90	110ject 10. 90 W011	1	
Client ID: 7-5-(9)	): 7-5-(9) Profile #:		
		Lab ID: AA04930	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.985	mg/L
· Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	0.0188	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<100	ug/kg
Methanol	EPA 8015	<100	ug/kg
Isobutyl Alcohol	EPA 8015	<10	ug/kg
N-Butyl Alcohol	EPA 8015	<50	ug/kg
Pyridine	EPA 8015	<10	ug/kg
2-Ethoxyethanol	EPA 8015	<10	ug/kg
Cyclohexanone	EPA 8015	<10	ug/kg
Nitrobenzene	EPA 8015	<10	ug/kg
o-Cresol	EPA 8015	<10	ug/kg
p-Cresol	EPA 8015	<10	ug/kg
m-Cresol	EPA 8015	<10	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	70	%
8260 F-LISTED SOLVENTS IN			~
Ethyl Ether	EPA 8260	<8	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<8	ug/kg
Acetone	EPA 8260	1300	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<8	ug/kg
2-Butanone (MEK)	EPA 8260	190	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	⋖	ug/kg
2-Nitropropane	EPA 8260	<8	ug/kg



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Report Date: 07/12/96

Received Date: 06/19/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

	1 7		19.2
Client ID: 7-5-(9)		Profile #: Lab ID: AA04930	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	8.2	ug/kg
Toluene	EPA 8260	12	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2 ⋅	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<2∙	ug/kg
Chloromethane	EPA 8260	<2	ug/kg
Vinyl chloride	EPA 8260	<2	ug/kg
Bromomethane	EPA 8260	<2	ug/kg
Chloroethane	EPA 8260	<2	ug/kg
Trichlorofluoromethane	EPA 8260	<2 ⋅	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<8	ug/kg
1,1-Dichloroethene	EPA 8260	<2	ug/kg
Ethyl Ether	EPA 8260	<8	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<8	ug/kg
Acetone	EPA 8260	1300	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
2-Methylpentane	EPA 8260	<8	ug/kg
Methylene Chloride	EPA 8260	<8	ug/kg
3-Methylpentane	EPA 8260	<8	ug/kg
Acrylonitrile	EPA 8260	<8	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<2	ug/kg
1,1-Dichloroethane	EPA 8260	<2	ug/kg
Vinyl Acetate	EPA 8260	<2	ug/kg
Methylcyclopentane	EPA 8260	<2	ug/kg
Acrolien	EPA 8260	<30	ug/kg
2,2-Dichloropropane	EPA 8260	<2	ug/kg
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# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/12/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 7-5-(9)		Profile #:	
<u></u>		Lab ID: AA04930	· .
Analyte	Method	Result	Units
cis-1,2-Dichloroethene	EPA 8260	<2	ug/kg
2-Butanone (MEK)	EPA 8260	190	ug/kg
Bromochloromethane	EPA 8260	<2 - 1	ug/kg
Tetrahydrofuran	EPA 8260	<8	ug/kg
Chloroform	EPA 8260	<2	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
1,1-Dichloropropene	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
1,2-Dichloroethane	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
1,2-Dichloropropane	EPA 8260	<2	ug/kg
Dibromomethane	EPA 8260	<2	ug/kg
Bromodichloromethane	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<8	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<2	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<2	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	8.2	ug/kg
Toluene	EPA 8260	12	ug/kg
1,2,3-Trichloropropane	EPA 8260	<2	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	urg/kg
1,3-Dichloropropane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
2-Hexanone	EPA 8260	21	ug/kg
1,2-Dibromoethane	EPA 8260	<2	ug/kg
Dibromochloromethane	EPA 8260	<2	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<5	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
Styrene	EPA 8260	<2	ug/kg
Bromoform	EPA 8260	<b>√</b> 2	ug/kg
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To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/12/96

Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Client ID:	7-5-(9)		Profile #:
	`,		Lab ID: AA04930
Analyte		Method	Result
Isopropylbenz	zene	EPA 8260	<2

Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<2	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<5	ug/kg
Bromobenzene	EPA 8260	<2	ug/kg
n-propylbenzene	EPA 8260	<2	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<2	ug/kg
2-Chlorotoluene	EPA 8260	<2	ug/kg
4-Chlorotoluene	EPA 8260	<2	ug/kg
tert-Butylbenzene	EPA 8260	<2	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<2	ug/kg
sec-Butylbenzene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
n-Butylbenzene	EPA 8260	<2	ug/kg
p-Isopropyltoluene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<8	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<2	ug/kg
Hexachlorobutadiene	EPA 8260	<2	ug/kg
Naphthalene	EPA 8260	<8	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	89	%
Γoluene-D8	EPA 8260	110	%
l-Bromofluorobenzene	EPA 8260	110	%
EPA 8270 Solid			
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
ois(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
-Chlorophenol	EPA 8270	<33	ug/kg
,3-Dichlorobenzene	EPA 8270	<33	ug/kg
,4-Dichlorobenzene	EPA 8270	<33	ug/kg
,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
is(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



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# **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	7-5-(9)	Profile #:
	• • • • • • • • • • • • • • • • • • • •	Lab ID: AA04930

		Lab ID: AA04930	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33.	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<b>&lt;67</b>	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/12/96

Generator: UMATILLA ARMY

Work Order No.:

Sample Collected: 06/19/96

Project Name: UMATILLA

P.O. No.:

Received Date: 06/19/96

Project No: 96W011

Client ID: 7-5-(9)		Profile #: Lab ID: AA04930	
Analyte Company of the Company of th	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	<33	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33 -	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	28	%
Phenol-d5	EPA 8270	29	%
Nitrobenzene-d5	EPA 8270	35	%
2-Fluorobiphenyl	EPA 8270	36	%
2,4,6-Tribromophenol	EPA 8270	24	%
Terphenyl-d14 BENZENE	EPA 8270	32	%
71-43-2 Benzene	EPA 8260	<1	ug/L



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

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Client ID:

7-5-(9)

Profile #:

Lab ID: AA04930

Analyte Method Result Units
TX by Dohrmann 9076 <500 ppm



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Ethylbenzene

1,3-Dichlorobenzene

m,p-Xylene o-Xylene

#### **Analytical Report**

Report Date: 07/12/96 Generator: UMATILLA ARMY

Sample Collected: 06/19/96 Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

Work Order No.:

P.O. No.:

37

160

63

<1

Job Number: 06191522

Client ID:	7-6-(6)	Profile #:
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Lab ID: AA04931 Analyte Method Result Units 8015 F-Listed Solvents in Solids <100 Ethyl Acetate **EPA 8015** ug/kg <100 Methanol **EPA 8015** ug/kg Isobutyl Alcohol **EPA 8015** <10 ug/kg N-Butyl Alcohol **EPA 8015** <50 ug/kg **Pyridine EPA 8015** <10 ug/kg **EPA 8015** <10 ug/kg 2-Ethoxyethanol ug/kg Cyclohexanone **EPA 8015** <10 Nitrobenzene **EPA 8015** <10 ug/kg o-Cresol **EPA 8015** <10 ug/kg ug/kg p-Cresol EPA 8015 <10 m-Cresol **EPA 8015** <10 ug/kg 8015 F-Listed Solvents Surrogate

#### 94 % Bromobenzene EPA 8015 8260 F-LISTED SOLVENTS IN SOLIDS Ethyl Ether **EPA 8260** <7 ug/kg <7 ug/kg 1,1,2-Trichlorotrifluorethane **EPA 8260** Acetone **EPA 8260** 450 ug/kg Carbon Disulfide **EPA 8260** <1 ug/kg

Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	110	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	2.4	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	18	ug/kg
Toluene	EPA 8260	42	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg

**EPA 8260** 

**EPA 8260** 

**EPA 8260** 

**EPA 8260** 

ug/kg

ug/kg

ug/kg

ug/kg



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# **Analytical Report**

Generator: UMATILLA ARMY

To: MARC STRICKLER

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Project Name: UMATILLA Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 0	0191322
Client ID: 7-6-(6)		Profile #: Lab ID: AA04931	. 4:
Analyte	Method	Result	Units
1,4-Dichlorobenzene	EPA 8260	Kesuit <1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg ug/kg
EPA 8260 Soil VOA\Volatiles	EFA 8200	~1	ng/vg
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<7	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	450	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	. <7	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
3-Methylpentane	EPA 8260	<7	ug/kg
Acrylonitrile	EPA 8260	<7	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	1.7	ug/kg
Acrolien	EPA 8260	<26	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg
cis-1,2-Dichloroethene	EPA 8260	<1	ug/kg
2-Butanone (MEK)	EPA 8260	110	ug/kg
Bromochloromethane	EPA 8260	<1	ug/kg
Tetrahydrofuran	EPA 8260	<7	ug/kg
Chloroform	EPA 8260	<1	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,1-Dichloropropene	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
1,2-Dichloroethane	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY -Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	7-6-(6)		Profile #:

Cheff 1D: 7-0-(0)	Lab ID: AA04931			
Analyte	Method	Result	Units	-
Benzene	EPA 8260	2.4	ug/kg	
Trichloroethene	EPA 8260	3	ug/kg	•
1,2-Dichloropropane	EPA 8260	<1	ug/kg	
Dibromomethane	EPA 8260	<1	ug/kg	
Bromodichloromethane	EPA 8260	<1	ug/kg	
2-Nitropropane	EPA 8260	<7	ug/kg	
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg	
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg	
4-Methyl-2-Pentanone (MIBK)	EPA 8260	18	ug/kg	
Toluene	EPA 8260	42	ug/kg	
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg	
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg	
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg	
1,3-Dichloropropane	EPA 8260	<1	ug/kg	
Tetrachloroethene	EPA 8260	<1	ug/kg	
2-Hexanone	EPA 8260	<7	ug/kg	
1,2-Dibromoethane	EPA 8260	<1	ug/kg	
Dibromochloromethane	EPA 8260	<1	ug/kg	
1,1,1,2-Tetrachloroethane	EPA 8260	<4	ug/kg	
Chlorobenzene	EPA 8260	<1	ug/kg	
Ethylbenzene	EPA 8260	37	ug/kg	
m,p-Xylene	EPA 8260	160	ug/kg	
o-Xylene	EPA 8260	63	ug/kg	
Styrene	EPA 8260	<1	ug/kg	
Bromoform	EPA 8260	<1	ug/kg	
Isopropylbenzene	EPA 8260	3.8	ug/kg	
1,1,2,2-Tetrachloroethane	EPA 8260	<4	ug/kg	
Bromobenzene	EPA 8260	<1	ug/kg	
n-propylbenzene	EPA 8260	33	ug/kg	
1,3,5-Trimethylbenzene	EPA 8260	72	ug/kg	
2-Chlorotoluene	EPA 8260	<1	ug/kg	
4-Chlorotoluene	EPA 8260	<1	ug/kg	
tert-Butylbenzene	EPA 8260	22	ug/kg	
1,2,4-Trimethylbenzene	EPA 8260	190	ug/kg	



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.: P.O. No.:

Received Date: 00/19/96	Floject 140. 96 W011	JOD IVANIOCI. VOI	71 <b>522</b>
Client ID: 7-6-(6)		Profile #: Lab ID: AA04931	
Analyte	Method	Result	Units
sec-Butylbenzene	EPA 8260	4.1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1 <1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	, <1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	43	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	97	%
Toluene-D8	EPA 8260	99	<b>%</b> .
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	98	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33′	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY
Project Name: UMATILLA
Project No: 96W011

Work Order No.:
P.O. No.:
Job Number: 06191522

Client ID: 7-6-(6) Profile #:

Client ID: 7-6-(6)		Lab ID: AA04931	
Analyte The second seco	Method	Result	Units
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	· <33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg
Diethylphthalate	EPA 8270	<33	ug/kg
1-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
1-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	48	ug/kg



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## **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	1 110ject 140. 96 WUII	Joo Number.	
Client ID: 7-6-(6)	Profile #: Lab ID: AA04931		
Analyte	Method	Result	Units
Anthracene	EPA 8270	67	ug/kg
Di-n-butylphthalate	EPA 8270	85	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	·ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate			
2-Fluorophenol	EPA 8270	21	%
Phenol-d5	EPA 8270	22	%
Nitrobenzene-d5	EPA 8270	52	%
2-Fluorobiphenyl	EPA 8270	65	%
2,4,6-Tribromophenol	EPA 8270	43	%
Terphenyl-d14 BENZENE	EPA 8270	58	%
71-43-2 Benzene	EPA 8260	2.0	ug/L
TX by Dohrmann	9076	<500	ppm



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# **Analytical Report**

Report Date: 07/12/96 | Generator: UMATILLA ARMY | V | Sample Collected: 06/19/96 | Project Name: UMATILLA | Project Name

Received Date: 06/19/96 Project No: 96W011

Work Order No.:

P.O. No.:

1000170d Date. 00. 25.75		l l	
Client ID: 8-1-(14)		Profile #:	
		Lab ID: AA04932	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.785	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5 ·	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	96	<b>%</b>
8260 F-LISTED SOLVENTS IN S		_	
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	9.3	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg



Philip Environmental Laboratory

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

10001700 20101 00. 15150	70,7011	ł	•
Client ID: 8-1-(14)		Profile #:	1 4 5 T
,		Lab ID: AA04932	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3 ⋅	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1 .	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 Soil VOA\Volatiles		,	
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<7	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	9.3	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<7	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
3-Methylpentane	EPA 8260	<7	ug/kg
Acrylonitrile	EPA 8260	<7	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<27	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/12/96

Sample Collected: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Chloroform         EPA 8260         <1	Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522	
cis-1,2-Dichloroethene         EPA 8260         <1         ug/kg           2-Butanone (MEK)         EPA 8260         <7         ug/kg           Bromochloromethane         EPA 8260         <1         ug/kg           Tetrahydrofuran         EPA 8260         <1         ug/kg           Chloroform         EPA 8260         <1         ug/kg           1,1,1-Trichloroethane         EPA 8260         <1         ug/kg           1,1-Dichloropropene         EPA 8260         <1         ug/kg           Carbon Tetrachloride         EPA 8260         <1         ug/kg           L3-Dichloropropene         EPA 8260         <1         ug/kg           Benzene         EPA 8260         <1         ug/kg           Trichloroethene         EPA 8260         <1         ug/kg           Trichloropropane         EPA 8260         <1         ug/kg           Bromodichloromethane         EPA 8260         <1         ug/kg           2-Nitropropane         EPA 8260         <1         ug/kg           2-Nitropropane         EPA 8260         <1         ug/kg           2-Nitropropane         EPA 8260         <1         ug/kg           2-Chlorethyl vinyl ether         EPA 8260	Client ID: 8-1-(14)			
2-Butanone (MEK) EPA 8260 <1 ug/kg Bromochloromethane EPA 8260 <1 ug/kg Tetrahydrofuran EPA 8260 <1 ug/kg Chloroform EPA 8260 <1 ug/kg 1,1,1-Trichloroethane EPA 8260 <1 ug/kg 1,1,1-Trichloropropene EPA 8260 <1 ug/kg 1,1-Dichloropropene EPA 8260 <1 ug/kg 1,2-Dichloroethane EPA 8260 <1 ug/kg Trichloroethane EPA 8260 <1 ug/kg 1,2-Dichloroethane EPA 8260 <1 ug/kg Trichloroethane EPA 8260 <1 ug/kg Trichloropropane EPA 8260 <1 ug/kg Trichloropropane EPA 8260 <1 ug/kg Trichloropropane EPA 8260 <1 ug/kg Dibromomethane EPA 8260 <1 ug/kg Dibromomethane EPA 8260 <1 ug/kg EPA 8260 <1 ug/kg Trichloropropane EPA 8260 <1 ug/kg Toluene EPA 8260 <1 ug/kg Toluene EPA 8260 <1 ug/kg Toluene EPA 8260 <1 ug/kg Trians-1,3-Dichloropropane EPA 8260 <1 ug/kg Tetrachloroethane EPA 8260	Analyte	Method	Result	Units - 200
Bromochloromethane	cis-1,2-Dichloroethene	EPA 8260	<1	ug/kg
Tetrahydrofuran	2-Butanone (MEK)	EPA 8260	<7	ug/kg
Chloroform         EPA 8260         <1         ug/kg           1,1,1-Trichloroethane         EPA 8260         <1	Bromochloromethane	EPA 8260	<1	ug/kg
1,1,1-Trichloroethane	Tetrahydrofuran /	EPA 8260	<7	ug/kg
1,1-Dichloropropene	Chloroform	EPA 8260	<1	ug/kg
Carbon Tetrachloride         EPA 8260         <1	1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,2-Dichloroethane	1,1-Dichloropropene	EPA 8260	<1	ug/kg
Benzene   EPA 8260   C  ug/kg	Carbon Tetrachloride	EPA 8260	<1	ug/kg
Trichloroethene         EPA 8260         <3	1,2-Dichloroethane	EPA 8260	<1	ug/kg
1,2-Dichloropropane       EPA 8260       <1	Benzene	EPA 8260	<1	ug/kg
Dibromomethane         EPA 8260         <1         ug/kg           Bromodichloromethane         EPA 8260         <1	Trichloroethene	EPA 8260	<3	ug/kg
Bromodichloromethane   EPA 8260   Stromodichloromethane   EPA 8260   Stromodichlorom	1,2-Dichloropropane	EPA 8260	<1	ug/kg
2-Nitropropane	Dibromomethane	EPA 8260	<1	ug/kg
2-Chlorethyl vinyl ether       EPA 8260       <1	Bromodichloromethane	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene       EPA 8260       <1	2-Nitropropane	EPA 8260	<7	ug/kg
cis-1,3-Dichloropropene       EPA 8260       <1	2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
Toluene	cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,2,3-Trichloropropane       EPA 8260       <1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7 ·	ug/kg
Trans-1,3-Dichloropropene         EPA 8260         <1	Toluene	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane       EPA 8260       <1	1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
1,3-Dichloropropane       EPA 8260       <1	Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
Tetrachloroethene         EPA 8260         <1         ug/kg           2-Hexanone         EPA 8260         <7	1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
2-Hexanone       EPA 8260       <7	1,3-Dichloropropane	EPA 8260	<1	ug/kg
1,2-Dibromoethane       EPA 8260       <1	Tetrachloroethene	EPA 8260	<1	ug/kg
Dibromochloromethane         EPA 8260         <1         ug/kg           1,1,2-Tetrachloroethane         EPA 8260         <4	2-Hexanone	EPA 8260	<7	ug/kg
1,1,1,2-Tetrachloroethane       EPA 8260       <4 ug/kg	1,2-Dibromoethane	EPA 8260	<1	ug/kg
Chlorobenzene       EPA 8260       <1       ug/kg         Ethylbenzene       EPA 8260       <1	Dibromochloromethane	EPA 8260	<1	ug/kg
Ethylbenzene       EPA 8260       <1	1,1,1,2-Tetrachloroethane	EPA 8260	<4	ug/kg
EPA 8260 <1 ug/kg  -Xylene EPA 8260 <1 ug/kg  -EPA 8260 <1 ug/kg  -I ug/kg  -I ug/kg  -I ug/kg  -I ug/kg	Chlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 <1 ug/kg  Styrene EPA 8260 <1 ug/kg	Ethylbenzene	EPA 8260	<1	ug/kg
EPA 8260 <1 ug/kg  Styrene EPA 8260 <1 ug/kg	n,p-Xylene	EPA 8260	<1	ug/kg
	o-Xylene	EPA 8260	<1	ug/kg
Bromoform EPA 8260 <1 ug/kg	Styrene	EPA 8260	<1	ug/kg
	Bromoform	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/12/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 0	6191522
Client ID: 8-1-(14)	Profil Lab I	e #: <b>D:</b> AA04932	• .
Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	. <1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<7	ug/kg
1,2,3-Trichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<1	ug/kg
1,2-Dichlorethane-D4	EPA 8260	100	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	98	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



WESTERN REGION To: MARC STRICKLER

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## **Analytical Report**

Report Date: 07/12/96
Sample Collected: 06/19/96
Received Date: 06/19/96
Received Date: 06/19/96
Generator: UMATILLA ARMY
Project Name: UMATILLA
Project No: 96W011
Work Order No.:
P.O. No.:
Job Number: 06191522

Client ID: 8-1-(14) Profile #:

Client ID: 8-1-(14)	Profile #:		
		Lab ID: AA04932	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
1-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



To: MARC STRICKLER

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# **Analytical Report**

Report Date: 07/12/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

		<u> </u>	
Client ID: 8-1-(14)		Profile #:	•
	Lab ID: AA04932		
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	75	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	1400	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate			
2-Fluorophenol	EPA 8270	62	%
Phenol-d5	EPA 8270	32	%
Nitrobenzene-d5	EPA 8270	30	%
2-Fluorobiphenyl	EPA 8270	54	%
2,4,6-Tribromophenol	EPA 8270	82	%
Ferphenyl-d14	EPA 8270	45	%
BENZENE			
71-43-2 Benzene	EPA 8260	<1	ug/L
			-



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# **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-1-(14)

Profile #:

Lab ID: AA04932

Analyte

Method

Result

Units

TX by Dohrmann

9076

<500

ppm



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# **Analytical Report**

Report Date: 07/12/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

		<u> </u>	
Client ID: 8-2-(14)		Profile #: Lab ID: AA04933	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	1.01	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	0.00219	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) 8260 F-LISTED SOLVENTS IN S	EPA 1311 OLIDS	100 g	
Ethyl Ether	EPA 8260	<12	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<12	ug/kg
Acetone	EPA 8260	<12	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<12	ug/kg
2-Butanone (MEK)	EPA 8260	<12	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<b>4</b>	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<5	ug/kg
2-Nitropropane	EPA 8260	<12	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<12	ug/kg
Toluene	EPA 8260	21	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	. ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg



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# **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96 Generator: UMATILLA ARMY
Project Name: UMATILLA
Project No: 96W011

Work Order No.: P.O. No.:

Received Date: 00/19/90	Project No. 96 WUII	W011   JOD 14umber. 0015152	
Client ID: 8-3-(14)		Profile #: Lab ID: AA04934	
Analyte	Method	Result	Units 🐇
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.858	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311	100 g	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	、ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogat	e		
Bromobenzene 8260 F-LISTED SOLVENTS IN	EPA 8015 SOLIDS	100	%
Ethyl Ether	EPA 8260	<8	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<8	ug/kg
Acetone	EPA 8260	. <8	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<8	ug/kg
2-Butanone (MEK)	EPA 8260	<8	ug/kg
1,1,1-Trichloroethane	EPA 8260	.<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<8	ug/kg



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#### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110ject 110.90 W011	<b>500 Trainiou</b>	
Client ID: 8-3-(14)		Profile #: Lab ID: AA04934	A CANADA
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<8	ug/kg
Toluene	EPA 8260	√ ⊲	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene EPA 8260 Soil VOA\Volatiles	EPA 8260	<2	ug/kg
Dichlorodifluoromethane	EPA 8260	<2	ug/kg
Chloromethane	EPA 8260	15	ug/kg
Vinyl chloride	EPA 8260	<2.	ug/kg
Bromomethane	EPA 8260	<2	ug/kg
Chloroethane	EPA 8260	<2	ug/kg
Trichlorofluoromethane	EPA 8260	<2	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<8	ug/kg
1,1-Dichloroethene	EPA 8260	<2	ug/kg
Ethyl Ether	EPA 8260	<8	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<8	ug/kg
Acetone	EPA 8260	<8	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
2-Methylpentane	EPA 8260	<8	ug/kg
Methylene Chloride	EPA 8260	<8	ug/kg
3-Methylpentane	EPA 8260	<8	ug/kg
Acrylonitrile	EPA 8260	<8	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<2	ug/kg
1,1-Dichloroethane	EPA 8260	<2	ug/kg
Vinyl Acetate	EPA 8260	<2	ug/kg
Methylcyclopentane	EPA 8260	<2	ug/kg
Acrolien	EPA 8260	<32	ug/kg
2,2-Dichloropropane	EPA 8260	<2	ug/kg



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### **Analytical Report**

Report Date: 07/15/96
Sample Collected: 06/19/96
Received Date: 06/19/96
Project Name: UMATILLA ARMY
Project Name: UMATILLA
Project No: 96W011
Job Number: 06191522

2. Profile #: Client ID: 8-3-(14) Lab ID: AA04934 Analyte Result Method Units cis-1,2-Dichloroethene **EPA 8260** <2 ug/kg <8 2-Butanone (MEK) **EPA 8260** ug/kg <2 Bromochloromethane **EPA 8260** ug/kg Tetrahydrofuran **EPA 8260** <8 ug/kg **EPA 8260** <2 Chloroform ug/kg 1,1,1-Trichloroethane **EPA 8260** <2 ug/kg 1,1-Dichloropropene **EPA 8260** <2 ug/kg Carbon Tetrachloride **EPA 8260** <2 ug/kg 1,2-Dichloroethane **EPA 8260** <2 ug/kg Benzene **EPA 8260** <2 ug/kg Trichloroethene **EPA 8260** <3 ug/kg 1,2-Dichloropropane **EPA 8260** <2 ug/kg Dibromomethane **EPA 8260** <2 ug/kg <2 Bromodichloromethane **EPA 8260** ug/kg <8 2-Nitropropane **EPA 8260** ug/kg 2-Chlorethyl vinyl ether **EPA 8260** <2 ug/kg cis-1,3-Dichloropropene **EPA 8260** <2 ug/kg 4-Methyl-2-Pentanone (MIBK) **EPA 8260** <8 ug/kg Toluene **EPA 8260** <3 ug/kg <2 1,2,3-Trichloropropane EPA 8260 ug/kg Trans-1,3-Dichloropropene EPA 8260 <2 ug/kg <2 1,1,2-Trichloroethane EPA 8260 ug/kg EPA 8260 <2 1,3-Dichloropropane ug/kg Tetrachloroethene **EPA 8260** <2 ug/kg <8 2-Hexanone **EPA 8260** ug/kg <2 1.2-Dibromoethane EPA 8260 ug/kg Dibromochloromethane **EPA 8260** <2 ug/kg <5 1,1,1,2-Tetrachloroethane **EPA 8260** ug/kg <2 **EPA 8260** Chlorobenzene ug/kg <2 Ethylbenzene **EPA 8260** ug/kg m,p-Xylene **EPA 8260** <2 ug/kg <2 o-Xylene EPA 8260 ug/kg <2 Styrene **EPA 8260** ug/kg <2 **Bromoform EPA 8260** ug/kg



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## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	8-3-(14)	Profile #:
	` '	Y -1 ID- 4 40400

Cheft 1D: 6-3-(14)		Lab ID: AA04934		:
Analyte	Method 13	Result	Units	-775a
Isopropylbenzene	EPA 8260	<b>2</b>	ug/kg	• . •
1,1,2,2-Tetrachloroethane	EPA 8260	<5	ug/kg	
Bromobenzene	EPA 8260	<2	ug/kg	
n-propylbenzene	EPA 8260	<2	ug/kg	
1,3,5-Trimethylbenzene	EPA 8260	<2	ug/kg	
2-Chlorotoluene	EPA 8260	<2	ug/kg	
4-Chlorotoluene	EPA 8260	<2	ug/kg	
tert-Butylbenzene	EPA 8260	<2 ·	ug/kg	
1,2,4-Trimethylbenzene	EPA 8260	<2	ug/kg	
sec-Butylbenzene	EPA 8260	8.7	ug/kg	
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg	
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg	
n-Butylbenzene	EPA 8260	<2	ug/kg	
p-Isopropyltoluene	EPA 8260	<2	ug/kg	
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg	
1,2-Dibromo-3-chloropropane	EPA 8260	<8	ug/kg	
1,2,4-Trichlorobenzene	EPA 8260	<2	ug/kg	
Hexachlorobutadiene	EPA 8260	<2	ug/kg	
Naphthalene	EPA 8260	<8	ug/kg	
1,2,3-Trichlorobenzene	EPA 8260	<2	ug/kg	
EPA 8260/624 Surrogate				
1,2-Dichlorethane-D4	EPA 8260	120	%	
Toluene-D8	EPA 8260	100	%	
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	100	%	
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg	
Analine	EPA 8270	<167	ug/kg	
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg	
Phenol	EPA 8270	· <33	ug/kg	
2-Chlorophenol	EPA 8270	<33	ug/kg	
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg	
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg	
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg	
Benzyl alcohol	EPA 8270	<67	ug/kg	
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg	



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Report Date: 07/15/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522	1.00
Client ID: 8-3-(14)	<del>-</del> - ·	file #: ID: AA04934		
Analyte	Method	Result	Units	. , , , , ,
2-Methylphenol	EPA 8270	<33	ug/kg	
Acetophenone	EPA 8270	<167	ug/kg	3.5
Hexachloroethane	EPA 8270	<33	ug/kg	
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg	
4-Methylphenol	EPA 8270	<33	ug/kg	
Nitrobenzene	EPA 8270	<33	ug/kg	
Isophorone	EPA 8270	<33	ug/kg	
2-Nitrophenol	EPA 8270	<33	ug/kg	
2,4-Dimethylphenol	EPA 8270	<33	ug/kg	
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg	
2,4-Dichlorophenol	EPA 8270	. <33	ug/kg	
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg	
Naphthalene	EPA 8270	<33	ug/kg	•
4-Chloroaniline	EPA 8270	<67	ug/kg	•
Hexachlorobutadiene	EPA 8270	<33	ug/kg	
Benzoic Acid	EPA 8270	<167	ug/kg	
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg	
2-Methylnaphthalene	EPA 8270	<33	ug/kg	
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg	
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg	
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg	
2-Chloronaphthalene	EPA 8270	<33	ug/kg	
2-Nitroaniline	EPA 8270	<67	ug/kg	
Acenaphthylene	EPA 8270	<33	ug/kg	
Dimethylphthalate	EPA 8270	<33	ug/kg	
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg	
Acenaphthene	EPA 8270	<33	ug/kg	
3-Nitroaniline	EPA 8270	<167	ug/kg	
2,4-Dinitrophenol	EPA 8270	<167	ug/kg	
Dibenzofuran	EPA 8270	<167	ug/kg	
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg	
4-Nitrophenol	EPA 8270	<33	ug/kg	
Fluorene	EPA 8270	<33	ug/kg	
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg	



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### **Analytical Report**

Work Order No.:

P.O. No.:

Job Number: 06191522

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Profile #: Client ID: 8-3-(14)

Chefit 1D: 6-3-(14)		Lab ID: AA04934	•
Analyte	Method		YT:4-
•		1/C3UIL	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
. n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	120	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	2600	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
20, 11, 1	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate			
•	EPA 8270	86	%
Phenol-d5	EPA 8270	85	%
Nitrobenzene-d5	EPA 8270	59	%
2-Fluorobiphenyl	EPA 8270	110	%
2,4,6-Tribromophenol	EPA 8270	110	%
Terphenyl-d14	EPA 8270	105	%
BENZENE			
71-43-2 Benzene	EPA 8260	<1	ug/L



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-3-(14)

Profile #:

Lab ID: AA04934

Analyte

Method

Result

Units

TX by Dohrmann

9076

<500

ppm



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## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.: P.O. No.:

Project No: 96W011

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 8-4-(14)		Profile #:	, .
		Lab ID: AA04935	
Analyte	Method	Result	<b>U</b>
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.798	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<b>&lt;5</b> .	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
3015 F-Listed Solvents Surrogat	te		
Bromobenzene 8260 F-LISTED SOLVENTS IN	EPA 8015 I <b>SOLIDS</b>	92	<b>%</b>
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Crichloroethene	EPA 8260	<3	ug/kg
-Nitropropane	EPA 8260	< 7	ug/kg
- f f	<del></del>	•	



To: MARC STRICKLER

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Acrolien

2,2-Dichloropropane

### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Job Number: 06191522

4-Methyl-2-Pentanone (MIBK) EPA 8260 <7 ug/kg	
4-Methyl-2-Pentanone (MIBK)       EPA 8260       <7       ug/kg         Toluene       EPA 8260       <3       ug/kg         1,1,2-Trichloroethane       EPA 8260       <1       ug/kg         Tetrachloroethene       EPA 8260       <1       ug/kg         Chlorobenzene       EPA 8260       <1       ug/kg         Ethylbenzene       EPA 8260       <1       ug/kg         m,p-Xylene       EPA 8260       <1       ug/kg         o-Xylene       EPA 8260       <1       ug/kg         1,3-Dichlorobenzene       EPA 8260       <1       ug/kg         1,4-Dichlorobenzene       EPA 8260       <1       ug/kg         1,2-Dichlorobenzene       EPA 8260       <1       ug/kg         EPA 8260 Soil VOA\Volatiles       Ug/kg       <1       ug/kg         Dichlorodifluoromethane       EPA 8260       <1       ug/kg         Chloromethane       EPA 8260       <1       ug/kg         Vinyl chloride       EPA 8260       <1       ug/kg         Bromomethane       EPA 8260       <1       ug/kg         Chloroethane       EPA 8260       <1       ug/kg         Trichlorofluoromethane       EPA 8260       <1 <td< th=""><th></th></td<>	
Toluene         EPA 8260         <3         ug/kg           1,1,2-Trichloroethane         EPA 8260         <1         ug/kg           Tetrachloroethene         EPA 8260         <1         ug/kg           Chlorobenzene         EPA 8260         <1         ug/kg           Ethylbenzene         EPA 8260         <1         ug/kg           m,p-Xylene         EPA 8260         <1         ug/kg           o-Xylene         EPA 8260         <1         ug/kg           1,3-Dichlorobenzene         EPA 8260         <1         ug/kg           1,4-Dichlorobenzene         EPA 8260         <1         ug/kg           1,2-Dichlorobenzene         EPA 8260         <1         ug/kg           EPA 8260 Soil VOA\Volatiles         Ug/kg            Dichlorodifluoromethane         EPA 8260         <1         ug/kg           Chloromethane         EPA 8260         <1         ug/kg           Vinyl chloride         EPA 8260         <1         ug/kg           Chloroethane         EPA 8260         <1         ug/kg           Trichlorofluoromethane         EPA 8260         <1         ug/kg           Thiolrofloroethane         EPA 8260         <1         ug/kg </th <th></th>	
1,1,2-Trichloroethane       EPA 8260       <1	
Tetrachloroethene	+ 4+ +.
Chlorobenzene         EPA 8260         <1	**
Ethylbenzene         EPA 8260         <1	
m,p-Xylene       EPA 8260       <1	
o-Xylene EPA 8260 <1 ug/kg 1,3-Dichlorobenzene EPA 8260 <1 ug/kg 1,4-Dichlorobenzene EPA 8260 <1 ug/kg 1,2-Dichlorobenzene EPA 8260 <1 ug/kg EPA 8260 Soil VOA\Volatiles  Dichlorodifluoromethane EPA 8260 <1 ug/kg Chloromethane EPA 8260 <1 ug/kg Vinyl chloride EPA 8260 <1 ug/kg Bromomethane EPA 8260 <1 ug/kg Chloroethane EPA 8260 <1 ug/kg Trichlorofluoromethane EPA 8260 <1 ug/kg 1,1-DichloroTrifluoroethane EPA 8260 <1 ug/kg 1,1-Dichlorothane EPA 8260 <1 ug/kg	
1,3-Dichlorobenzene       EPA 8260       <1	
1,4-Dichlorobenzene       EPA 8260       <1	
1,2-Dichlorobenzene       EPA 8260       <1	
EPA 8260 Soil VOA\VolatilesDichlorodifluoromethaneEPA 8260<1	4111
Dichlorodifluoromethane EPA 8260 <1 ug/kg Chloromethane EPA 8260 <1 ug/kg Vinyl chloride EPA 8260 <1 ug/kg Bromomethane EPA 8260 <1 ug/kg Chloroethane EPA 8260 <1 ug/kg Chloroethane EPA 8260 <1 ug/kg Trichlorofluoromethane EPA 8260 <1 ug/kg 1,1-DichloroTrifluoroethane EPA 8260 <7 ug/kg 1,1-Dichloroethene EPA 8260 <1 ug/kg	
Chloromethane         EPA 8260         <1         ug/kg           Vinyl chloride         EPA 8260         <1	
Vinyl chlorideEPA 8260<1ug/kgBromomethaneEPA 8260<1	
Bromomethane EPA 8260 <1 ug/kg Chloroethane EPA 8260 <1 ug/kg Trichlorofluoromethane EPA 8260 <1 ug/kg 1,1-DichloroTrifluoroethane EPA 8260 <7 ug/kg 1,1-Dichloroethene EPA 8260 <1 ug/kg	
Chloroethane EPA 8260 <1 ug/kg Trichlorofluoromethane EPA 8260 <1 ug/kg 1,1-DichloroTrifluoroethane EPA 8260 <7 ug/kg 1,1-Dichloroethene EPA 8260 <1 ug/kg	
Trichlorofluoromethane EPA 8260 <1 ug/kg 1,1-DichloroTrifluoroethane EPA 8260 <7 ug/kg 1,1-Dichloroethene EPA 8260 <1 ug/kg	
1,1-DichloroTrifluoroethane EPA 8260 <7 ug/kg 1,1-Dichloroethene EPA 8260 <1 ug/kg	
1,1-Dichloroethene EPA 8260 <1 ug/kg	
Ethyl Ether EPA 8260 <7 ug/kg	
1,1,2-Trichlorotrifluoroethane EPA 8260 <7 ug/kg	
Acetone EPA 8260 <7 ug/kg	
Carbon Disulfide EPA 8260 <1 ug/kg	
2-Methylpentane EPA 8260 <7 ug/kg	
Methylene Chloride EPA 8260 <7 ug/kg	
3-Methylpentane EPA 8260 <7 ug/kg	
Acrylonitrile EPA 8260 <7 ug/kg	
trans-1,2-Dichloroethene EPA 8260 <1 ug/kg	
1,1-Dichloroethane EPA 8260 <1 ug/kg	
Vinyl Acetate EPA 8260 <1 ug/kg	
Methylcyclopentane EPA 8260 <1 ug/kg	

**EPA 8260** 

**EPA 8260** 

ug/kg

ug/kg

<30

<1



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### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

........

Client ID:	8-4-(14)	*	Profile #:

Cheff 1D: 6-4-(14)		Lab ID: AA04935	•
Analyte State Office With the	Method	Result	Units de
cis-1,2-Dichloroethene	EPA 8260	<1	ug/kg
2-Butanone (MEK)	EPA 8260	<7 →	ug/kg
Bromochloromethane	EPA 8260	<1	ug/kg
. Tetrahydrofuran	EPA 8260	<7	ug/kg
Chloroform	EPA 8260	<1	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,1-Dichloropropene	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
1,2-Dichloroethane	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
1,2-Dichloropropane	EPA 8260	<1	ug/kg
Dibromomethane	EPA 8260	<1	ug/kg
Bromodichloromethane	EPA 8260	<1	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	⋖	ug/kg
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
1,3-Dichloropropane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
2-Hexanone	EPA 8260	<7	ug/kg
1,2-Dibromoethane	EPA 8260	<1	ug/kg
Dibromochloromethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
Styrene	EPA 8260	<1	ug/kg
Bromoform	EPA 8260	<1	ug/kg



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### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 0	6191522
Client ID: 8-4-(14)		ofile #:	
	La	<b>b ID:</b> AA04935	
Analyte + + + + + + + + + + + + + + + + + + +	Method was as as	Result	Units
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1 -	ug/kg
Naphthalene	EPA 8260	<7	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			•
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	88	%
4-Bromofluorobenzene	EPA 8260	120	%
EPA 8270 Solid			
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenoi	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
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### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Profile #: Client ID: 8-4-(14)

Chefit 15. 0-7-(14)	Lab ID: AA04935		
Analyte See See See See See	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	· <67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
1-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
1-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



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### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 8-4-(14)		Profile #: Lab ID: AA04935	
Analyte	Method	Result	Units
•	EPA 8270	Kesun ≪33	ug/kg
Diethylphthalate 4-Nitroaniline	EPA 8270	<167	
	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270 EPA 8270	<33	ug/kg
n-Nitrosodiphenylamine Azobenzene	EPA 8270 EPA 8270	<33	ug/kg
	EPA 8270	<33	ug/kg ug/kg
4-Bromophenyl-phenylether Hexachlorobenzene	EPA 8270	<33	
	EPA 8270	<167	ug/kg
Pentachlorophenol Phenanthrene	EPA 8270 EPA 8270	<33	ug/kg
Anthracene	EPA 8270 EPA 8270	<33	ug/kg
	EPA 8270	84	ug/kg
Di-n-butylphthalate Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
	EPA 8270	<33	ug/kg
Pyrene Pyrene	EPA 8270	<33	ug/kg ug/kg
Butylbenzylphthalate	EPA 8270	<33	• •
3,3'-Dichlorobenzidine	EPA 8270	<67	ug/kg
Benzo[a]anthracene	EPA 8270 EPA 8270	<33	ug/kg
Chrysene		990	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<33	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270		ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg ·
2-Fluorophenol	EPA 8270	30	%
Phenol-d5	EPA 8270	31	%
Nitrobenzene-d5	EPA 8270	25	%
2-Fluorobiphenyl	EPA 8270	45	%
2,4,6-Tribromophenol	EPA 8270	47	%
Terphenyl-d14 BENZENE	EPA 8270	81	%
71-43-2 Benzene	EPA 8260	<1	ug/L
			13



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-4-(14)

Profile #:

Lab ID: AA04935

Analyte

Method

Result

Units

TX by Dohrmann

9076

<500

ppm



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

### **Analytical Report**

Work Order No.: Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

P.O. No.:

Client ID: 8-5-(14)	<u> </u>	Profile #: Lab ID: AA04936	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.860	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	93	%
8260 F-LISTED SOLVENTS IN SO			_
Ethyl Ether	EPA 8260	<10	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<10	ug/kg
Acetone	EPA 8260	<10	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<10	ug/kg
2-Butanone (MEK)	EPA 8260	<10	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2 ⋅	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
2-Nitropropane	EPA 8260	<10	ug/kg



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### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	•	Job Number: 06	191522
Client ID: 8-5-(14)		Profile Lab ID:	#: : AA04936	. :
Analyte	Method	on Arrest great	Result :	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	•	<10	ug/kg
Toluene	EPA 8260		<4	ug/kg
1,1,2-Trichloroethane	EPA 8260		<2	ug/kg
Tetrachloroethene	EPA 8260		<2	ug/kg
Chlorobenzene	EPA 8260		<2	ug/kg
Ethylbenzene	EPA 8260		<2	ug/kg
m,p-Xylene	EPA 8260		<2	ug/kg
o-Xylene	EPA 8260		<2	ug/kg
1,3-Dichlorobenzene	EPA 8260		<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	•	<2	ug/kg
1,2-Dichlorobenzene EPA 8260 Soil VOA\Volatiles	EPA 8260		<2	ug/kg
Dichlorodifluoromethane	EPA 8260		<2	ug/kg
Chloromethane	EPA 8260		<2	ug/kg
Vinyl chloride	EPA 8260		<2	ug/kg
Bromomethane	EPA 8260		<2	ug/kg
Chloroethane	EPA 8260		<2	ug/kg
Trichlorofluoromethane	EPA 8260		<2 -	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260		<10	ug/kg
1,1-Dichloroethene	EPA 8260		<2	ug/kg
Ethyl Ether	EPA 8260		<10	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260		<10	ug/kg
Acetone	EPA 8260		<10	ug/kg
Carbon Disulfide	EPA 8260		<2	ug/kg
2-Methylpentane	EPA 8260		<10	ug/kg
Methylene Chloride	EPA 8260		<10	ug/kg
3-Methylpentane	EPA 8260		<10	ug/kg
Acrylonitrile	EPA 8260		<10	ug/kg
trans-1,2-Dichloroethene	EPA 8260		<2	ug/kg
1,1-Dichloroethane	EPA 8260		<2	ug/kg
Vinyl Acetate	EPA 8260		<2	ug/kg
Methylcyclopentane	EPA 8260		<2	ug/kg
Acrolien	EPA 8260		<40	ug/kg
2,2-Dichloropropane	EPA 8260		<2	ug/kg



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## **Analytical Report**

Report Date: 07/15/96 Generator: UMATILLA ARMY

Sample Collected: 06/19/96 Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 8-5-(14)		Profile #:	
		Lab ID: AA04936	
Analyte	··· Method	Result	Units
cis-1,2-Dichloroethene	EPA 8260	<2 ⋅	ug/kg
2-Butanone (MEK)	EPA 8260	<10	ug/kg
Bromochloromethane	EPA 8260	<2	ug/kg
Tetrahydrofuran	EPA 8260	<10	ug/kg
Chloroform	EPA 8260	<2	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
1,1-Dichloropropene	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
1,2-Dichloroethane	EPA 8260	<2 ⋅	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
1,2-Dichloropropane	EPA 8260	. <2	ug/kg
Dibromomethane	EPA 8260	<2	ug/kg
Bromodichloromethane	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<10	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<2	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<2	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<10	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,2,3-Trichloropropane	EPA 8260	<2	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
1,3-Dichloropropane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
2-Hexanone	EPA 8260	<10	ug/kg
1,2-Dibromoethane	EPA 8260	<2	ug/kg
Dibromochloromethane	EPA 8260	<2	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<6	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
Styrene	EPA 8260	<2	ug/kg
Bromoform	EPA 8260	<2	ug/kg



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Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 8-5-(14)		ofile #: • ID: AA04936	1.1 x 8.50
Analyte	Method	Result	Units ::
Isopropylbenzene	EPA 8260	<2	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<6	ug/kg
Bromobenzene	EPA 8260	<2	ug/kg
n-propylbenzene	EPA 8260	<2	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<2	ug/kg ·
2-Chlorotoluene	EPA 8260 ·	<2	ug/kg
4-Chlorotoluene	EPA 8260	<2	ug/kg
tert-Butylbenzene	EPA 8260	<2	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<2	ug/kg
sec-Butylbenzene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
n-Butylbenzene	EPA 8260	<2	ug/kg
p-Isopropyltoluene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<10	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<2	ug/kg
Hexachlorobutadiene	EPA 8260	<2	ug/kg
Naphthalene	EPA 8260	<10	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	110	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



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Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

4-Chlorophenyl-phenylether

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

	·		
Client ID: 8-5-(14)		Profile #: Lab ID: AA04936	
Analyte	Method	Result	Units and
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	√33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
1-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg

**EPA 8270** 

ug/kg

<33



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Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

	<del></del>	
Client ID:	8-5-(14)	Profile #:

Chent 1D: 0-3-(14)		1 I dille #.	
		<b>Lab ID:</b> AA04936	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	· <167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	47	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	1500	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate			
2-Fluorophenol	EPA 8270	31	%
Phenol-d5	EPA 8270	29	%
Nitrobenzene-d5	EPA 8270	~ 30	%
2-Fluorobiphenyl	EPA 8270	51	%
2,4,6-Tribromophenol	EPA 8270	34	%
Terphenyl-d14	EPA 8270	81	%
BENZENE			_
71-43-2 Benzene	EPA 8260	1.3	ug/L



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-5-(14)

Profile #:

Lab ID: AA04936

Method

Result -

Units

TX by Dohrmann

9076

<500

ppm



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#### **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY | Work Order No.:
Sample Collected: 06/19/96 | Project Name: UMATILLA | Project No.:
Project No.: 96W011 | Job Number: 06191522

Profile #: .. 1,-, Client ID: 8-6-(14) Lab ID: AA04937 Analyte Method Result Units ... Silver EPA 6010 < 0.0114 mg/L Arsenic EPA 6010 < 0.114 mg/L Barium **EPA 6010** 0.686 mg/L . Cadmium EPA 6010 < 0.0057 mg/L Chromium EPA 6010 < 0.0114 mg/L Mercury **EPA 6010** < 0.057 mg/L Lead mg/L EPA 6010 < 0.114 Selenium **EPA 6010** < 0.342 mg/L TCLP (Extraction Procedure) **EPA 1311** 100 g 8015 F-Listed Solvents in Solids Ethyl Acetate **EPA 8015** <50 ug/kg Methanol EPA 8015 <50 ug/kg Isobutyl Alcohol **EPA 8015** <5 ug/kg N-Butyl Alcohol **EPA 8015** <25 ug/kg <5 **Pyridine EPA 8015** ug/kg <5 2-Ethoxyethanol **EPA 8015** ug/kg Cyclohexanone **EPA 8015** <5 ug/kg Nitrobenzene <5 **EPA 8015** ug/kg o-Cresol **EPA 8015** <5 ug/kg p-Cresol EPA 8015 <5 ug/kg m-Cresol <5 EPA 8015 ug/kg 8015 F-Listed Solvents Surrogate Bromobenzene EPA 8015 94 % 8260 F-LISTED SOLVENTS IN SOLIDS Ethyl Ether EPA 8260 <7 ug/kg 1,1,2-Trichlorotrifluorethane EPA 8260 <7 ug/kg <7 Acetone **EPA 8260** ug/kg Carbon Disulfide **EPA 8260** <1 ug/kg Methylene Chloride EPA 8260 <7 ug/kg 2-Butanone (MEK) <7 **EPA 8260** ug/kg 1,1,1-Trichloroethane **EPA 8260** <1 ug/kg Carbon Tetrachloride **EPA 8260** <1 ug/kg Benzene **EPA 8260** <1 ug/kg Trichloroethene EPA 8260 <3 ug/kg 2-Nitropropane **EPA 8260** <7 ug/kg



Philip Environmental Laboratory

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### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	8-6-(14)	Profile #:
		Lab ID: A A 0.4937

		Lab ID: AA04937	••
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
. Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene EPA 8260 Soil VOA\Volatiles	EPA 8260	<1	ug/kg
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<7	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<7	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
3-Methylpentane	EPA 8260	<7	ug/kg
Acrylonitrile	EPA 8260	<7	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<27	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date	:06/19/96	Project No: 96W011	Job Number: 0	6191522
Client ID:	8-6-(14)	·	Profile #: Lab ID: AA04937	(2) (2)
Analyte		Method	Result	Units open
cis-1,2-Dichlor	oethene	EPA 8260	<1	ug/kg
2-Butanone (M	EK)	EPA 8260	<7	ug/kg
Bromochlorom	ethane	EPA 8260	<1	ug/kg
Tetrahydrofura	n	EPA 8260	<7	ug/kg
Chloroform		EPA 8260	<1	ug/kg
1,1,1-Trichloro	ethane	EPA 8260	<1	ug/kg
1,1-Dichloropro	opene	EPA 8260	<1	ug/kg
Carbon Tetrach	loride	EPA 8260	<1	ug/kg
1,2-Dichloroeth	nane	EPA 8260	<1	ug/kg
Benzene		EPA 8260	<1	ug/kg
Trichloroethene	•	EPA 8260	⋖	ug/kg
1,2-Dichloropro	opane	EPA 8260	<1	ug/kg
Dibromomethan	ne	EPA 8260	<1	ug/kg
Bromodichloro	methane	EPA 8260	<1	ug/kg
2-Nitropropane		EPA 8260	<7	ug/kg
2-Chlorethyl vii	nyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloro	opropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pen	tanone (MIBK)	EPA 8260	<7	ug/kg
Toluene		EPA 8260	<3	ug/kg
1,2,3-Trichlorop	propane	EPA 8260	<1	ug/kg
Trans-1,3-Dichl	oropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroe	ethane	EPA 8260	<1	ug/kg
1,3-Dichloropro	pane	EPA 8260	<1	ug/kg
Tetrachloroethe	ne	EPA 8260	<1	ug/kg
2-Hexanone		EPA 8260	<7	ug/kg
1,2-Dibromoeth	ane	EPA 8260	<1	ug/kg
Dibromochloron	nethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachle	oroethane	EPA 8260	<4	ug/kg
Chlorobenzene		EPA 8260	<1	ug/kg
Ethylbenzene		EPA 8260	<1	ug/kg
m,p-Xylene		EPA 8260	<1	ug/kg
o-Xylene		EPA 8260	<1	ug/kg
Styrene		EPA 8260	<1	ug/kg
Bromoform		EPA 8260	<1	ug/kg



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Report Date: 07/15/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY.

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522	
Client ID: 8-6-(14)		file #:		:
	Lab	ID: AA04937		
Analyte	Method	Result	Units	
Isopropylbenzene	EPA 8260	<1	ug/kg	
1,1,2,2-Tetrachloroethane	EPA 8260	<4	ug/kg	٠.
Bromobenzene	EPA 8260	<1	ug/kg	
n-propylbenzene	EPA 8260	<1	ug/kg	٠,
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg	
2-Chlorotoluene	EPA 8260	· <1	ug/kg	
4-Chlorotoluene	EPA 8260	<1	ug/kg	
tert-Butylbenzene	EPA 8260	<1	ug/kg	
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg	
sec-Butylbenzene	EPA 8260	<1	ug/kg	
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg	
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg	
n-Butylbenzene	EPA 8260	<1	ug/kg	
p-Isopropyltoluene	EPA 8260	<1	ug/kg	
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg	
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg	•
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg	
Hexachlorobutadiene	EPA 8260	<1	ug/kg	
Naphthalene	EPA 8260	<7	ug/kg	
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg	
EPA 8260/624 Surrogate				
1,2-Dichlorethane-D4	EPA 8260	120	%	
Toluene-D8	EPA 8260	97	%	
4-Bromofluorobenzene	EPA 8260	110	%	
EPA 8270 Solid				
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg	
Analine	EPA 8270	<167	ug/kg	
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg	
Phenol	EPA 8270	<33	ug/kg	
2-Chlorophenol	EPA 8270	<33	ug/kg	
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg	
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg	
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg	
Benzyl alcohol	EPA 8270	<67	ug/kg	
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg	



BY-PRODUCT RECOVERY GROUP
WESTERN REGION

Philip Environmental Laboratory 955 Powell Avenue S.W.

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

4-Chlorophenyl-phenylether

Generator: UMATILLA ARMY
Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

<33

Job Number: 06191522

Client ID: 8-6-(14)		Profile #: Lab ID: AA04937	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33 -	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg

EPA 8270

ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110,000110.90 W011		
Client ID: 8-6-(14)	Profile #: Lab ID: AA04937		
Analyte was the Market and the	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
1-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
l-Bromophenyl-phenylether	EPA 8270	<33 ⋅	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<sup>2</sup> <33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	140	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33 ⋅	ug/kg
ois(2-Ethylhexyl)phthalate	EPA 8270	960	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
ndeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
-Fluorophenol	EPA 8270	33	%
Phenol-d5	EPA 8270	30	%
Nitrobenzene-d5	EPA 8270	26	%
-Fluorobiphenyl	EPA 8270	54	%
2,4,6-Tribromophenol	EPA 8270	48	%
Ferphenyl-d14 BENZENE	EPA 8270	83	%
71-43-2 Benzene	EPA 8260	2.6	ug/L



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110

FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.: ,..

P.O. No.:

Job Number: 06191522

Client ID:

8-6-(14)

Profile #:

Lab ID: AA04937

Analyte

Method

Result

Units

TX by Dohrmann

9076

<500

ppm



Philip Environmental Laboratory 955 Powell Avenue S.W.

Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

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Received Date: 00/19/90	F10ject 140.96 W011		00171322
Client ID: 8-7-(14)		Profile #: Lab ID: AA04938	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.920	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	50.0g	
8015 F-Listed Solvents in Solids		,	• •,
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol *	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
3015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	100	%
3260 F-LISTED SOLVENTS IN S			
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
2-Butanone (MEK)	EPA 8260	<5	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY | Work Order No.:
Project Name: UMATILLA | P.O. No.:

Project No: 96W011

P.O. No.: Job Number: 06191522

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120,000

1.5

Client ID: 8-7-(14) Profile #:

Chent ID: 8-7-(14)		Prome #:	= 1
		Lab ID: AA04938	18 7 F
Analyte	Method	Result	Units 😁
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<5	ug/kg
Toluene	EPA 8260	<2.	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<5	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<5	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
3-Methylpentane	EPA 8260	<5	ug/kg
Acrylonitrile	EPA 8260	<5	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<20	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Generator: UMATILLA ARMY Work Order No.:
Project Name: UMATILLA

P.O. No.:

Received Date: 06/19/96 Project No: 96W011 Job Number: 06191522

Client ID: 8-7-(14)		Profile #: Lab ID: AA04938	
Analyte	Method	Result	Units Mark
cis-1,2-Dichloroethene	EPA 8260	<1	ug/kg
2-Butanone (MEK)	EPA 8260	< <b>5</b>	ug/kg
Bromochloromethane	EPA 8260	<1	ug/kg
. Tetrahydrofuran	EPA 8260	<5	ug/kg
Chloroform	EPA 8260	<1	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,1-Dichloropropene	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
1,2-Dichloroethane	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
1,2-Dichloropropane	EPA 8260	<1	ug/kg
Dibromomethane	EPA 8260	<1	ug/kg
Bromodichloromethane	EPA 8260	<1	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<b>&lt;5</b> -	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
1,3-Dichloropropane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
2-Hexanone	EPA 8260	<5	ug/kg
1,2-Dibromoethane	EPA 8260	<1	ug/kg
Dibromochloromethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<3	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
Styrene	EPA 8260	<1	ug/kg
Bromoform	EPA 8260	<1	ug/kg



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FAX 206.227.6110

### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

	1	<u> </u>	1 ×
Client ID: 8-7-(14)		Profile #:	- [赤
	, A	Lab ID: AA04938	
Analyte	Method	Result	Units ***
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<3	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
· n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<5	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<5	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	98	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene	EPA 8260	100	%
EPA 8270 Solid			
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY
Sample Collected: 06/19/96 | Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 8-7-(14)		Profile #: Lab ID: AA04938	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 8-7-(14)		Profile #: Lab ID: AA04938	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	70	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	480	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	20	%
Phenol-d5	EPA 8270	23	%
Nitrobenzene-d5	EPA 8270	27	%
2-Fluorobiphenyl	EPA 8270	51	%
2,4,6-Tribromophenol	EPA 8270	58	%
Terphenyl-d14 BENZENE	EPA 8270	28	%
71-43-2 Benzene	EPA 8260	<1	ug/L



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To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-7-(14)

Profile #:

Lab ID: AA04938

Analyte

Method

Result

Units

TX by Dohrmann

9076

<500

ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110ject 140. 96 W011	300 1144110011	
Client ID: 8-8-(14)		Profile #: Lab ID: AA04939	•
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.851	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	50.0 g	
8015 F-Listed Solvents in Solids		J	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogat	e		
Bromobenzene	EPA 8015	94	%
8260 F-LISTED SOLVENTS IN			
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
2-Butanone (MEK)	EPA 8260	. <5	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg
			36



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/15/50	1119,00011	[	
Client ID: 8-8-(14)		Profile #:	: «*; · .
` ,		Lab ID: AA04939	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<5	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	· <1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<5	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<5	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
3-Methylpentane	EPA 8260	<5	ug/kg
Acrylonitrile	EPA 8260	<5	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<20	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Sample Collected: 06/19/96

Received Date: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	8-8-(14)	•	Profile #:	
	` /	_	Lah ID: AA04939	

•		Lab ID: AA04939	. •
Analyte	Method	Result -	Units 🐎
cis-1,2-Dichloroethene	EPA 8260	<1	ug/kg
2-Butanone (MEK)	EPA 8260	<5	ug/kg
Bromochloromethane	EPA 8260	<1	ug/kg
Tetrahydrofuran	EPA 8260	<5	ug/kg 🕝
Chloroform	EPA 8260	<1	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,1-Dichloropropene	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg 🐳
1,2-Dichloroethane	EPA 8260	<1	ug/kg 🕖
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
1,2-Dichloropropane	EPA 8260	<1	ug/kg
Dibromomethane	EPA 8260	<1	ug/kg
Bromodichloromethane	EPA 8260	<1	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<b>&lt;5</b>	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
1,3-Dichloropropane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
2-Hexanone	EPA 8260	<5	ug/kg
1,2-Dibromoethane	EPA 8260	<1	ug/kg
Dibromochloromethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<3	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
Styrene	EPA 8260	<1	ug/kg
Bromoform	EPA 8260	<1	ug/kg



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Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY
Project Name: UMATILLA
Project No: 96W011

Work Order No.:
P.O. No.:
Job Number: 06191522

Client ID: 8-8-(14) Profile #:
Lab ID: AA04939

	r . y	Lab ID: AA04939	
Analyte	Method	Result	Units 🐨
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<3	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyitoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<5	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg 👑
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<5	ug/kg
1,2,3-Trichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<1	ug/kg
1,2-Dichlorethane-D4	EPA 8260	100	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	100	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	ULA.	Job Number:	06191522
Client ID: 8-8-(14)	and the second s	Profile Lab ID	#: AA04939	
Analyte	Method	e service	Result	Units
2-Methylphenol	EPA 8270		<33	ug/kg
Acetophenone	EPA 8270	n :	<167	ug/kg
Hexachloroethane	EPA 8270		<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270		<33	ug/kg
4-Methylphenol	EPA 8270		<33 ⋅	ug/kg
Nitrobenzene	EPA 8270		<33	ug/kg
Isophorone	EPA 8270		<33	ug/kg
2-Nitrophenol	EPA 8270		<33	ug/kg
2,4-Dimethylphenol	EPA 8270		·· <b>&lt;</b> 33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270		<33	ug/kg
2,4-Dichlorophenol	EPA 8270		<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270		<33	ug/kg
Naphthalene	EPA 8270		<33	ug/kg
4-Chloroaniline	EPA 8270		<67	ug/kg
Hexachlorobutadiene	EPA 8270		<33	ug/kg
Benzoic Acid	EPA 8270		<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270		<67	ug/kg
2-Methylnaphthalene	EPA 8270		<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270		<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270		<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270		<33	ug/kg
2-Chloronaphthalene	EPA 8270		<33	ug/kg
2-Nitroaniline	EPA 8270		<67	ug/kg
Acenaphthylene	EPA 8270		<33	ug/kg
Dimethylphthalate	EPA 8270		<33	ug/kg
2,6-Dinitrotoluene	EPA 8270		<33	ug/kg
Acenaphthene	EPA 8270		<33	ug/kg
3-Nitroaniline	EPA 8270		<167	ug/kg
2,4-Dinitrophenol	EPA 8270		<167	ug/kg
Dibenzofuran	EPA 8270		<167	ug/kg
2,4-Dinitrotoluene	EPA 8270		<33	ug/kg
4-Nitrophenol	EPA 8270		<33	ug/kg
Fluorene	EPA 8270		<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270		<33	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110Ject 110.96 W011	100114	
Client ID: 8-8-(14)		Profile #:	
	+ <del>-</del>	Lab ID: AA04939	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	93	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	1600	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	38	%
Phenol-d5	EPA 8270	46	%
Nitrobenzene-d5	EPA 8270	37	%
2-Fluorobiphenyl	EPA 8270	78	%
2,4,6-Tribromophenol	EPA 8270	81	%
Terphenyl-d14 BENZENE	EPA 8270	110	%
71-43-2 Benzene	EPA 8260	65	ug/L 41



To: MARC STRICKLER

<500

ppm

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

TX by Dohrmann

#### **Analytical Report**

Work Order No.: Report Date: 07/15/96 Generator: UMATILLA ARMY Project Name: UMATILLA P.O. No.: Sample Collected: 06/19/96 Project No: 96W011 Job Number: 06191522 Received Date: 06/19/96 Profile #: Client ID: 8-8-(14) Lab ID: AA04939 Analyte Method Result Units

9076



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date. 00/15/50	110,0001110.90 W011		
Client ID: 8-9-(14)	·	Profile #: Lab ID: AA04940	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.762	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	50.0 g	-
8015 F-Listed Solvents in Solids	<b>!</b>	, .	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogat	te		
Bromobenzene	EPA 8015	93	%
8260 F-LISTED SOLVENTS IN	SOLIDS		
Ethyl Ether	EPA 8260	<6	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<6	ug/kg
Acetone	EPA 8260	7.6	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<6	ug/kg
2-Butanone (MEK)	EPA 8260	<6	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<6	ug/kg
· ·			



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 0	6191522
Client ID: 8-9-(14)		Profile #: Lab ID: AA04940	
Analyte	Method	ice es Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<6	ug/kg
Toluene	EPA 8260	<2 <	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene EPA 8260 Soil VOA\Volatiles	EPA 8260	<1	ug/kg
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<6	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<6	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<6	ug/kg
Acetone	EPA 8260	7.6	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<6	ug/kg
Methylene Chloride	EPA 8260	<6	ug/kg
3-Methylpentane	EPA 8260	<6	ug/kg
Acrylonitrile	EPA 8260	<6	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<23	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

## **Analytical Report**

Generator: UMATILLA ARMY

Work Order No.:

Sample Collected: 06/19/96	Project Name: UMATI	LLA	)	en egister en
Received Date: 06/19/96	Project No: 96W011		Job Number: 061	91522
Client ID: 8-9-(14)	•	Profile	#: : AA04940	
Analyte	Method		Result	Units
•	EPA 8260		<1 <1	ug/kg
cis-1,2-Dichloroethene	EPA 8260	·		ug/kg ug/kg
2-Butanone (MEK) Bromochloromethane	EPA 8260		<b>~</b> 0 <b>&lt;</b> 1	ug/kg ug/kg
Tetrahydrofuran	EPA 8260 EPA 8260		<6	ug/kg ug/kg
Chloroform	EPA 8260		<1	ug/kg ug/kg
1,1,1-Trichloroethane	EPA 8260		<1	ug/kg ug/kg
1,1-Dichloropropene	EPA 8260		<1	ug/kg ug/kg
Carbon Tetrachloride	EPA 8260		<1	ug/kg ·
1,2-Dichloroethane	EPA 8260		<1 <1	ug/kg
Benzene	EPA 8260		4 <b>&lt;1</b>	ug/kg
Trichloroethene	EPA 8260		<2	ug/kg
1,2-Dichloropropane	EPA 8260		<1	ug/kg ug/kg
Dibromomethane	EPA 8260		<1	ug/kg
Bromodichloromethane	EPA 8260		<1	ug/kg
2-Nitropropane	EPA 8260		<6	ug/kg
2-Nidopropane 2-Chlorethyl vinyl ether	EPA 8260		<1	ug/kg ug/kg
cis-1,3-Dichloropropene	EPA 8260		<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260		<6	ug/kg
Foluene	EPA 8260		<b>₹</b>	ug/kg
1,2,3-Trichloropropane	EPA 8260		<1	ug/kg
Frans-1,3-Dichloropropene	EPA 8260		<1	ug/kg
1,1,2-Trichloroethane	EPA 8260		<1	ug/kg
1,3-Dichloropropane	EPA 8260		<1	ug/kg
Tetrachloroethene	EPA 8260		<1	ug/kg
2-Hexanone	EPA 8260		<6	ug/kg
1,2-Dibromoethane	EPA 8260		<1	ug/kg
Dibromochloromethane	EPA 8260		<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260		<3	ug/kg
Chlorobenzene	EPA 8260		<1	ug/kg
Ethylbenzene	EPA 8260		<1	ug/kg
n,p-Xylene	EPA 8260		<1	ug/kg
o-Xylene	EPA 8260		<1	ug/kg
Styrene	EPA 8260		<1	ug/kg
Bromoform	EPA 8260		<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Generator: UMATILLA ARMY

Sample Collected: 06/19/96 Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 8-9-(14)		Profile #: Lab ID: AA04940	
Analyte Analyte Roman Roman	Method	Result	Units
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<3	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<6	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<6	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	100	%
Toluene-D8	EPA 8260	98	%
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	100	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
- · ·			16



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.:

P.O. No.:

Tah Number 06191522

- - -

Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522	
Client ID: 8-9-(14)		Profile #:	· · · · · · · · · · · · · · · · · · ·
		Lab ID: AA04940	
	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
l-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
l-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg
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Philip Environmental Laboratory

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#### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Generator: UMATILLA ARMY

Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Client ID:	8-9-(14)		Profile #: Lab ID: AA04940	
Analyte		Method	l Result	

		Lab ID: AA04940	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	120	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	3200	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate		•	
2-Fluorophenol	EPA 8270	59	%
Phenol-d5	EPA 8270	62	%
Nitrobenzene-d5	EPA 8270	87	%
2-Fluorobiphenyl	EPA 8270	55	%
2,4,6-Tribromophenol	EPA 8270	65	%
Terphenyl-d14	EPA 8270	81	%
BENZENE			•
71-43-2 Benzene	EPA 8260	<1	ug/L
			40



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

9076

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-9-(14)

Profile #:

Lab ID: AA04940

Analyte

TX by Dohrmann

Method :

Result <500

Units

ppm



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	00191322
Client ID: 8-10-(14)		Profile #: Lab ID: AA04941	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.956	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311	50.0 g	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate	e		
Bromobenzene 8260 F-LISTED SOLVENTS IN	EPA 8015	94	%
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg ug/kg
Benzene	EPA 8260	<1	ug/kg ug/kg
Trichloroethene	EPA 8260	<3	ug/kg ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg ug/kg
2-14tti Opt Opane	Li A 0200	`1	ng/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 00	191322
Client ID: 8-10-(14)		Profile #: Lab ID: AA04941	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	··· <1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1.	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<7	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<7	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
3-Methylpentane	EPA 8260	<7	ug/kg
Acrylonitrile	EPA 8260	<7	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<29	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



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## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 8-10-(14)		Profile #: Lab ID: AA	<b>\0494</b> 1	
Analyte	Method	Res	sult	Units
cis-1,2-Dichloroethene	EPA 8260		<1	ug/kg
2-Butanone (MEK)	EPA 8260	. : '	<7	ug/kg
Bromochloromethane	EPA 8260		<1	ug/kg
· Tetrahydrofuran	EPA 8260		<7	ug/kg
Chloroform	EPA 8260		<1	ug/kg
1,1,1-Trichloroethane	EPA 8260		<1	ug/kg
1,1-Dichloropropene	EPA 8260		<1	ug/kg
Carbon Tetrachloride	EPA 8260		<1	ug/kg
1,2-Dichloroethane	EPA 8260	7	<1	ug/kg
Benzene	EPA 8260		<1	ug/kg
Trichloroethene	EPA 8260		⋖	ug/kg
1,2-Dichloropropane	EPA 8260		<1	ug/kg
Dibromomethane	EPA 8260		<1	ug/kg
Bromodichloromethane	EPA 8260		<1	ug/kg
2-Nitropropane	EPA 8260		<7	ug/kg
2-Chlorethyl vinyl ether	EPA 8260		<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260		<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260		<7	ug/kg
Toluene	EPA 8260		<3	ug/kg
1,2,3-Trichloropropane	EPA 8260		<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260		<1	ug/kg
1,1,2-Trichloroethane	EPA 8260		<1	ug/kg
1,3-Dichloropropane	EPA 8260		<1	ug/kg
Tetrachloroethene	EPA 8260		<1	ug/kg
2-Hexanone	EPA 8260		<7	ug/kg
1,2-Dibromoethane	EPA 8260		<1	ug/kg
Dibromochloromethane	EPA 8260		<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260		<4	ug/kg
Chlorobenzene	EPA 8260		<1	ug/kg
Ethylbenzene	EPA 8260		<1	ug/kg
m,p-Xylene	EPA 8260		<1	ug/kg
o-Xylene	EPA 8260		<1	ug/kg
Styrene	EPA 8260		<1	ug/kg
Bromoform	EPA 8260		<1	ug/kg



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## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 8-10-(14)		Profile #: Lab ID: AA04941	(1)
Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	·-<4	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1 .	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<7	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	100	%
l-Bromofluorobenzene	EPA 8260	100	%
EPA 8270 Solid			•
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
ois(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
-Chlorophenol	EPA 8270	<33	ug/kg
,3-Dichlorobenzene	EPA 8270	<33	ug/kg
,4-Dichlorobenzene	EPA 8270	<33	ug/kg
,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
ois(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



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**Analytical Report** 

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-10-(14)

Profile #:

		Lab ID: AA04941	•
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
-Nitrophenol	EPA 8270	<33	ug/kg
luorene	EPA 8270	<33	ug/kg
-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110ject 140. 96 W011	Joo Munoon.	
Client ID: 8-10-(14)	Profile #: Lab ID: AA04941		
Analyte	Method - **	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	86	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	2400	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	29	%
Phenol-d5	EPA 8270	33	<b>%</b>
Nitrobenzene-d5	EPA 8270	24	%
2-Fluorobiphenyl	EPA 8270	44	%
2,4,6-Tribromophenol	EPA 8270	68	%
Гегрhеnyl-d14 ВENZENE	EPA 8270	63	%
71-43-2 Benzene	EPA 8260	<1	ug/L



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-10-(14)

Profile #:

Lab ID: AA04941

Analyte

Method

Result

Units .....

TX by Dohrmann

9076

<500

ppm



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## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	8-11-(14)		ile #: ID: AA04942
A 1 4		3.6.43. 3	~ ".

0 11 (11)		Lab ID: AA04942	
Analyte America and America	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.864	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	50.0 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			•
Bromobenzene	EPA 8015	93	%
8260 F-LISTED SOLVENTS IN SOLI			_
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	⋖	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg



Philip Environmental Laboratory

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

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 -			-

8-11-(14)

Profile #:

Chem 12. 0 11 (1 )		Lab ID: AA04942	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
. Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 Soil VOA\Volatiles		·	
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<7	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<7	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
3-Methylpentane	EPA 8260	<7	ug/kg
Acrylonitrile	EPA 8260	<7	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<27	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Passived Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No. 0631/011

Work Order No.:

P.O. No.:

Joh Number 06191522

Received Date: 06/19/96	Project No: 96W011	Job Number: 061	91522
Client ID: 8-11-(14)		Profile #:	* . <u>*</u> . *
		Lab ID: AA04942	
Analyte	Method	Result	Units 🚧
cis-1,2-Dichloroethene	EPA 8260	<1	ug/kg
2-Butanone (MEK)	EPA 8260	$\triangleleft$	ug/kg
Bromochloromethane	EPA 8260	<1	ug/kg
Tetrahydrofuran	EPA 8260	<7	ug/kg
Chloroform	EPA 8260	<1	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,1-Dichloropropene	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
1,2-Dichloroethane	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	⋖	ug/kg
1,2-Dichloropropane	EPA 8260	<1	ug/kg
Dibromomethane	EPA 8260	<1	ug/kg
Bromodichloromethane	EPA 8260	<1	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
1,3-Dichloropropane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
2-Hexanone	EPA 8260	<7	ug/kg
1,2-Dibromoethane	EPA 8260	<1	ug/kg
Dibromochloromethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
Styrene	EPA 8260	<1	ug/kg
Bromoform	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110

FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-11-(14)

Profile #:

Tab ID: A A 04042

		Lab ID: AA04942	
Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1.	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<7	ug/kg
1,2,3-Trichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<1	ug/kg
1,2-Dichlorethane-D4	EPA 8260	100	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene E <b>PA 8270 Solid</b>	EPA 8260	99	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
ois(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
,3-Dichlorobenzene	EPA 8270	<33	ug/kg
,4-Dichlorobenzene	EPA 8270	<33	ug/kg
,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
ois(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
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Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Joh Number 06101522

Profile #:   Lab ID: AA04942	Received Date: 06/19/96	Project No: 96W011	Job Number: 0	6191522
Lab ID: AA04942   Analyte	Client ID: 8-11-(14)		Profile #:	***
2-Methylphenol         EPA 8270         <33         ug/kg           Acetophenone         EPA 8270         <167         ug/kg           Hexachloroethane         EPA 8270         <33         ug/kg           Hexachloroethane         EPA 8270         <33         ug/kg           4-Methylphenol         EPA 8270         <33         ug/kg           Nitrobenzene         EPA 8270         <33         ug/kg           Isophorone         EPA 8270         <33         ug/kg           2-Nitrophenol         EPA 8270         <33         ug/kg           2-4-Dimethylphenol         EPA 8270         <33         ug/kg           bis(2-Chloroethoxy)methane         EPA 8270         <33         ug/kg           2,4-Dinethylphenol         EPA 8270         <33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         <33         ug/kg           1,2,4-Trichlorophenzene         EPA 8270         <33         ug/kg           4-Chloroaniline         EPA 8270         <33         ug/kg           Hexachlorobutadiene         EPA 8270         <67         ug/kg           Benzoic Acid         EPA 8270         <67         ug/kg           Hexachloro-3-methylphenol         EPA 827	<b>、</b>		Lab ID: AA04942	
Acetophenone         EPA 8270         <167	Analyte	Method	Result	Units
Hexachloroethane	2-Methylphenol	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine         EPA 8270         33         ug/kg           4-Methylphenol         EPA 8270         33         ug/kg           Nitrobenzene         EPA 8270         33         ug/kg           Isophorone         EPA 8270         33         ug/kg           2-Nitrophenol         EPA 8270         33         ug/kg           2,4-Dimethylphenol         EPA 8270         33         ug/kg           2,4-Dichlorophenol         EPA 8270         33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         33         ug/kg           Naphthalene         EPA 8270         33         ug/kg           4-Chloroaniline         EPA 8270         33         ug/kg           Hexachlorobutadiene         EPA 8270         43         ug/kg           Benzoic Acid         EPA 8270         467         ug/kg           4-Chloroa-methylphenol         EPA 8270         467         ug/kg           2-Methylnaphthalene         EPA 8270         33         ug/kg           4-Kachlorocyclopentadiene         EPA 8270         33         ug/kg           2,4,5-Trichlorophenol         EPA 8270	Acetophenone	EPA 8270	<167	ug/kg
4-Methylphenol         EPA 8270         33         ug/kg           Nitrobenzene         EPA 8270         33         ug/kg           Isophorone         EPA 8270         33         ug/kg           2-Nitrophenol         EPA 8270         33         ug/kg           2,4-Dimethylphenol         EPA 8270         33         ug/kg           bis(2-Chloroethoxy)methane         EPA 8270         33         ug/kg           2,4-Dichlorophenol         EPA 8270         33         ug/kg           2,4-Dichlorophenol         EPA 8270         33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         33         ug/kg           Naphthalene         EPA 8270         33         ug/kg           4-Chloroaniline         EPA 8270         43         ug/kg           Hexachlorobutadiene         EPA 8270         467         ug/kg           Hexachloroaniline         EPA 8270         467         ug/kg           Benzoic Acid         EPA 8270         467         ug/kg           4-Chloro-3-methylphenol         EPA 8270         467         ug/kg           2-Methylnaphthalene         EPA 8270         467         ug/kg           2-Methylnaphthalene         EPA 8270	Hexachloroethane	EPA 8270	<33	ug/kg
Nitrobenzene         EPA 8270         ⊲33         ug/kg           Isophorone         EPA 8270         ⊲33         ug/kg           2-Nitrophenol         EPA 8270         ⊲33         ug/kg           2,4-Dimethylphenol         EPA 8270         ⊲33         ug/kg           bis(2-Chloroethoxy)methane         EPA 8270         ⊲33         ug/kg           2,4-Dichlorophenol         EPA 8270         ⊲33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         ⊲33         ug/kg           Naphthalene         EPA 8270         ⊲33         ug/kg           4-Chloroaniline         EPA 8270         ⊲3         ug/kg           Hexachlorobutadiene         EPA 8270         ⊲3         ug/kg           Hexachlorochidiene         EPA 8270         ⊲3         ug/kg           Hexachloro-3-methylphenol         EPA 8270         ⊲67         ug/kg           2-Methylnaphthalene         EPA 8270         ⊲3         ug/kg           2-Methylnaphthalene         EPA 8270         ⊲3         ug/kg           2,4,6-Trichlorophenol         EPA 8270         ⊲3         ug/kg           2,4,5-Trichlorophenol         EPA 8270         ⊲3         ug/kg           2-Chloronaphthalene	N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
Isophorone	4-Methylphenol	EPA 8270	<33	ug/kg
2-Nitrophenol         EPA 8270         <33	Nitrobenzene	EPA 8270	<33	ug/kg
2,4-Dimethylphenol         EPA 8270         33         ug/kg           bis(2-Chloroethoxy)methane         EPA 8270         33         ug/kg           2,4-Dichlorophenol         EPA 8270         33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         33         ug/kg           Naphthalene         EPA 8270         33         ug/kg           4-Chloroaniline         EPA 8270         667         ug/kg           Hexachlorobutadiene         EPA 8270         33         ug/kg           Benzoic Acid         EPA 8270         4167         ug/kg           4-Chloro-3-methylphenol         EPA 8270         467         ug/kg           2-Methylnaphthalene         EPA 8270         33         ug/kg           2-Methylnaphthalene         EPA 8270         33         ug/kg           2,4,6-Trichlorophenol         EPA 8270         33         ug/kg           2,4,5-Trichlorophenol         EPA 8270         33         ug/kg           2-Chloronaphthalene         EPA 8270         33         ug/kg           2-Nitroaniline         EPA 8270         33         ug/kg           2-Nitroalilne         EPA 8270         33         ug/kg           2,6-Dinitrotoluene         <	Isophorone	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane         EPA 8270         33         ug/kg           2,4-Dichlorophenol         EPA 8270         33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         33         ug/kg           Naphthalene         EPA 8270         33         ug/kg           4-Chloroaniline         EPA 8270         67         ug/kg           Hexachlorobutadiene         EPA 8270         33         ug/kg           Hexachlorobutadiene         EPA 8270         33         ug/kg           Hexachlorobutadiene         EPA 8270         467         ug/kg           Hexachloro-3-methylphenol         EPA 8270         467         ug/kg           2-Methylnaphthalene         EPA 8270         43         ug/kg           2-Methylnaphthalene         EPA 8270         33         ug/kg           2,4,6-Trichlorophenol         EPA 8270         33         ug/kg           2,4,5-Trichlorophenol         EPA 8270         33         ug/kg           2,-Chloronaphthalene         EPA 8270         33         ug/kg           2-Nitroaniline         EPA 8270         33         ug/kg           2-O-Dinitrotoluene         EPA 8270         33         ug/kg           3-Nitroaniline	2-Nitrophenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane         EPA 8270         33         ug/kg           2,4-Dichlorophenol         EPA 8270         33         ug/kg           1,2,4-Trichlorobenzene         EPA 8270         33         ug/kg           Naphthalene         EPA 8270         33         ug/kg           4-Chloroaniline         EPA 8270         667         ug/kg           Hexachlorobutadiene         EPA 8270         33         ug/kg           Benzoic Acid         EPA 8270         667         ug/kg           4-Chloro-3-methylphenol         EPA 8270         667         ug/kg           2-Methylnaphthalene         EPA 8270         33         ug/kg           2-Methylnaphthalene         EPA 8270         33         ug/kg           2-Methylnaphthalene         EPA 8270         33         ug/kg           2,4,6-Trichlorophenol         EPA 8270         33         ug/kg           2,4,5-Trichlorophenol         EPA 8270         33         ug/kg           2-Chloronaphthalene         EPA 8270         33         ug/kg           2-Nitroaniline         EPA 8270         33         ug/kg           2-O-Dinitrotoluene         EPA 8270         33         ug/kg           2,6-Dinitrotoluene	2,4-Dimethylphenol	EPA 8270	<33	ug/kg
2,4-Dichlorophenol       EPA 8270       <33	bis(2-Chloroethoxy)methane	EPA 8270	<33	
1,2,4-Trichlorobenzene         EPA 8270         <33	2,4-Dichlorophenol	EPA 8270	<33	
Naphthalene         EPA 8270         <33         ug/kg           4-Chloroaniline         EPA 8270         <67	1,2,4-Trichlorobenzene	EPA 8270	<33	
4-Chloroaniline       EPA 8270       <67	Naphthalene	EPA 8270	<33	
Hexachlorobutadiene         EPA 8270         <33         ug/kg           Benzoic Acid         EPA 8270         <167	4-Chloroaniline	EPA 8270	<67	
Benzoic Acid         EPA 8270         <167         ug/kg           4-Chloro-3-methylphenol         EPA 8270         <67	Hexachlorobutadiene	EPA 8270	<33	
4-Chloro-3-methylphenol       EPA 8270       <67	Benzoic Acid	EPA 8270	<167	
2-Methylnaphthalene       EPA 8270       <33	4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
Hexachlorocyclopentadiene         EPA 8270         <33         ug/kg           2,4,6-Trichlorophenol         EPA 8270         <33	2-Methylnaphthalene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol       EPA 8270       <33	Hexachlorocyclopentadiene	EPA 8270	<33	
2,4,5-Trichlorophenol       EPA 8270       <33	2,4,6-Trichlorophenol	EPA 8270	<33	
2-Chloronaphthalene       EPA 8270       <33	2,4,5-Trichlorophenol	EPA 8270	<33	
2-Nitroaniline       EPA 8270       <67	2-Chloronaphthalene	EPA 8270	<33	<del>-</del> -
Acenaphthylene       EPA 8270       <33	2-Nitroaniline	EPA 8270	<67	
Dimethylphthalate         EPA 8270         <33         ug/kg           2,6-Dinitrotoluene         EPA 8270         <33	Acenaphthylene	EPA 8270	<33	<del>-</del> -
2,6-Dinitrotoluene       EPA 8270       <33	Dimethylphthalate	EPA 8270	<33	
Acenaphthene       EPA 8270       <33	2,6-Dinitrotoluene	EPA 8270	<33	
3-Nitroaniline       EPA 8270       <167	Acenaphthene	EPA 8270	<33	
2,4-Dinitrophenol       EPA 8270       <167	-	EPA 8270	<167	
Dibenzofuran         EPA 8270         <167         ug/kg           2,4-Dinitrotoluene         EPA 8270         <33	2,4-Dinitrophenol	EPA 8270	<167	
2,4-Dinitrotoluene       EPA 8270       <33	•			
4-Nitrophenol EPA 8270 <33 ug/kg Fluorene EPA 8270 <33 ug/kg	2,4-Dinitrotoluene			
Fluorene EPA 8270 <33 ug/kg				
	•			
	4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Sample Collected: 06/19/96

Received Date: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	8-11-(14)	•	Profile #:

Cheff 1D: 0-11-(14)		Lab ID: AA04942		
Amalasta	D.C. 41 J			
Analyte	Method	Result	Units	
Diethylphthalate	EPA 8270	<33	ug/kg	
4-Nitroaniline	EPA 8270	<167	ug/kg	•
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg	
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg	
Azobenzene	EPA 8270	<33	ug/kg	
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg	
Hexachlorobenzene	EPA 8270	<33	ug/kg	
Pentachlorophenol	EPA 8270	<167	ug/kg	
Phenanthrene	EPA 8270	<33	ug/kg	•
Anthracene	EPA 8270	<33	ug/kg	
Di-n-butylphthalate	EPA 8270	180	ug/kg	
Fluoranthene	EPA 8270	<33	ug/kg	
Benzidine	EPA 8270	<33	ug/kg	
Pyrene	EPA 8270	<33	ug/kg	
Butylbenzylphthalate	EPA 8270	<33	ug/kg	
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg	
Benzo[a]anthracene	EPA 8270	<67	ug/kg	
Chrysene	EPA 8270	<33	ug/kg	
bis(2-Ethylhexyl)phthalate	EPA 8270	560	ug/kg	
Di-n-octylphthalate	EPA 8270	<33	ug/kg	
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg	
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg	
Benzo[a]pyrene	EPA 8270	<33	ug/kg	
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg	
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg	
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg	
EPA 8270/625 Surrogate				
2-Fluorophenol	EPA 8270	34	%	
Phenol-d5	EPA 8270	35	%	
Nitrobenzene-d5	EPA 8270	26	%	
2-Fluorobiphenyl	EPA 8270	49	%	
2,4,6-Tribromophenol	EPA 8270	55	%	
Terphenyl-d14 BENZENE	EPA 8270	94	%	
71-43-2 Benzene	EPA 8260	<1	ug/L	



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-11-(14)

Profile #:

Lab ID: AA04942

Analyte

Result '

Units

TX by Dohrmann

9076

Method

<500

ppm



Philip Environmental Laboratory

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Project No. 96 WUII	300 1 tumber: 0	0171322
Client ID: 8-12-(14)		Profile #: Lab ID: AA04943	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.807	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	50.0 g	
8015 F-Listed Solvents in Solids	•	_	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyi Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<b>&lt;5</b> .	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<sub>.</sub> <5	ug/kg
8015 F-Listed Solvents Surrogat			
Bromobenzene	EPA 8015	96	<b>%</b>
8260 F-LISTED SOLVENTS IN			
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
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Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 0	6191522
Client ID: 8-12-(14)		file #:	
` ,	Lab	<b>ID:</b> AA04943	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3 :	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<7	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<7	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
3-Methylpentane	EPA 8260	<7	ug/kg
Acrylonitrile	EPA 8260	<7	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<27	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227 6110 FAX 206.227.6196

## **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96 Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Job Number: 06191522

To: MARC STRICKLER

Chichitae Car (2.)	Profile #: Lab ID: AA04943	<b>Units</b> ug/kg
cis-1,2-Dichloroethene 2-Butanone (MEK) Bromochloromethane EPA 8260 EPA 8260 Tetrahydrofuran EPA 8260 Chloroform EPA 8260 1,1,1-Trichloroethane EPA 8260 1,1-Dichloropropene EPA 8260 Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 Trichloropropane EPA 8260	<1	
2-Butanone (MEK) Bromochloromethane EPA 8260 Tetrahydrofuran EPA 8260 Chloroform EPA 8260 1,1,1-Trichloroethane EPA 8260 1,1-Dichloropropene EPA 8260 Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 EPA 8260 Bromodichloromethane EPA 8260		ug/kg
Bromochloromethane EPA 8260 Tetrahydrofuran EPA 8260 Chloroform EPA 8260 1,1,1-Trichloroethane EPA 8260 1,1-Dichloropropene EPA 8260 Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260	<7	
Tetrahydrofuran EPA 8260 Chloroform EPA 8260 1,1,1-Trichloroethane EPA 8260 1,1-Dichloropropene EPA 8260 Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260		ug/kg
Chloroform EPA 8260 1,1,1-Trichloroethane EPA 8260 1,1-Dichloropropene EPA 8260 Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<1	ug/kg
1,1,1-Trichloroethane EPA 8260 1,1-Dichloropropene EPA 8260 Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<7	ug/kg
1,1-Dichloropropene EPA 8260 Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<1	<sup>-</sup> ug/kg
Carbon Tetrachloride EPA 8260 1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<1	ug/kg
1,2-Dichloroethane EPA 8260 Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<1	ug/kg
Benzene EPA 8260 Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<1	ug/kg
Trichloroethene EPA 8260 1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<1	ug/kg
1,2-Dichloropropane EPA 8260 Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<1	ug/kg
Dibromomethane EPA 8260 Bromodichloromethane EPA 8260	<3	ug/kg
Bromodichloromethane EPA 8260	<1	ug/kg
	<1	ug/kg
2-Nitropropane EPA 8260	<1	ug/kg
	<7	ug/kg
2-Chlorethyl vinyl ether EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK) EPA 8260	<7	ug/kg
Toluene EPA 8260	<3	ug/kg
1,2,3-Trichloropropane EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene EPA 8260	<1	ug/kg
1,1,2-Trichloroethane EPA 8260	<1	ug/kg
1,3-Dichloropropane EPA 8260	<1	ug/kg
Tetrachloroethene EPA 8260	<1	ug/kg
2-Hexanone EPA 8260	<7	ug/kg
1,2-Dibromoethane EPA 8260	<1	ug/kg
Dibromochloromethane EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane EPA 8260	<4	ug/kg
Chlorobenzene EPA 8260	<1	ug/kg
Ethylbenzene EPA 8260	<1	ug/kg
n,p-Xylene EPA 8260	<1	ug/kg
-Xylene EPA 8260	<1	ug/kg
Styrene EPA 8260	<1	ug/kg
Bromoform EPA 8260		ne ve



To: MARC STRICKLER

**Philip Environmental Laboratory** 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96 WOTT	Job Mulliber.	0171322
Client ID: 8-12-(14)		Profile #: Lab ID: AA04943	son selv Aske
Analyte	Method	Result	Units 💏
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Bromobenzene	EPA 8260	<1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	<1	ug/kg
Naphthalene	EPA 8260	<7	ug/kg
1,2,3-Trichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<1	ug/kg
1,2-Dichlorethane-D4	EPA 8260	99	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene EPA 8270 Solid	EPA 8260	99	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
			67



Work Order No.:

Job Number: 06191522

P.O. No.:

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY
Sample Collected: 06/19/96 | Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

Client ID: 8-12-(14)		Profile #: Lab ID: AA04943	** 
Analyte	Method	Result	Units ···
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone .	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	. <33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



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## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	. Job Number:	00191322
Client ID: 8-12-(14)		Profile #: Lab ID: AA04943	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	≪33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg ug/kg
Di-n-butylphthalate	EPA 8270	56	ug/kg ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	650	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate			
2-Fluorophenol	EPA 8270	35	%
Phenol-d5	EPA 8270	40	%
Nitrobenzene-d5	EPA 8270	75	%
2-Fluorobiphenyl	EPA 8270	51	%
2,4,6-Tribromophenol	EPA 8270	61	%
Гегрhеnyl-d14 З <b>ENZENE</b>	EPA 8270	69	%
71-43-2 Benzene	EPA 8260	23	ug/L



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

TX by Dohrmann

8-12-(14)

Profile #:

Lab ID: AA04943

Analyte

Method 9076

Result <500 Units

ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Project No. 96 W011	Job Namiber.	JO171322
Client ID: 8-13-(14)		Profile #: Lab ID: AA04944	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	1.15	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311	50.0 g	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	·· <5	- ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surroga	te		
Bromobenzene 8260 F-LISTED SOLVENTS IN	EPA 8015 SOLIDS	93	%
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	8-13-(14)	Profile #:	
	• •	Lah ID. A A 0.4044	

		Lab ID: AA04944	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene EPA 8260 Soil VOA\Volatiles	EPA 8260	<1	ug/kg
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	EPA 8260	<1	ug/kg
Bromomethane	EPA 8260	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<7	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<7	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
3-Methylpentane	EPA 8260	<7	ug/kg
Acrylonitrile	EPA 8260	<7	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<26	ug/kg
2,2-Dichloropropane	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

## **Analytical Report**

Generator: UMATILLA ARMY

Work Order No.:

Sample Collected: 06/19/96 Received Date: 06/19/96	Project Name: UMATILLA Project No: 96W011	P.O. No.: Job Number:	
Client ID: 8-13-(14)		file #: ID: AA04944	
Analyte	Method	Result	Units Desire
cis-1,2-Dichloroethene	EPA 8260	·· <1	ug/kg
2-Butanone (MEK)	EPA 8260	<b>₹</b>	ug/kg
Bromochloromethane	EPA 8260	<1	ug/kg
Tetrahydrofuran	EPA 8260	<7	ug/kg
Chloroform	EPA 8260	<1	ug/kg ^
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,1-Dichloropropene	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
1,2-Dichloroethane	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	⋖	ug/kg
1,2-Dichloropropane	EPA 8260	<1.	ug/kg
Dibromomethane	EPA 8260	<1	ug/kg
Bromodichloromethane	EPA 8260	<1	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
1,3-Dichloropropane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
2-Hexanone	EPA 8260	<7	ug/kg
1,2-Dibromoethane	EPA 8260	<1	ug/kg
Dibromochloromethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
Styrene	EPA 8260	<1	ug/kg
Bromoform	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	8-13-(14)		Profile #:	
			Lab ID: AA	
A I		N. A.		

Cheft 1D. 6-13-(14)	<b>Lab ID:</b> AA04944		
Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<1	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	· <4	ug/kg
Bromobenzene	EPA 8260	· <1	ug/kg
n-propylbenzene	EPA 8260	<1	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<1	ug/kg
2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene	EPA 8260	<1	ug/kg
tert-Butylbenzene	EPA 8260	<1	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<1	ug/kg
sec-Butylbenzene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
n-Butylbenzene	EPA 8260	<1	ug/kg
p-Isopropyltoluene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<7	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<1	ug/kg
Hexachlorobutadiene	EPA 8260	· <1	ug/kg
Naphthalene	EPA 8260	<7	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	100	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene	EPA 8260	100	%
EPA 8270 Solid			_
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011		
Client ID: 8-13-(14)		ofile #: ab ID: AA04944	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110

FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 8-13-(14)	13-(14) Profile #: Lab ID: AA04944		
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33 ⋅	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	<33	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	2300	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	75	%
Phenol-d5	EPA 8270	48	%
Nitrobenzene-d5	EPA 8270	59	%
2-Fluorobiphenyl	EPA 8270	55	%
2,4,6-Tribromophenol	EPA 8270	81	%
Terphenyl-d14 BENZENE	EPA 8270	97	%
71-43-2 Benzene	EPA 8260	2.1	ug/L



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

8-13-(14)

Profile #:

Lab ID: AA04944

Analyte

Method

9076

Result -

Units and

TX by Dohrmann

<500

ppm



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY Work Order No.:
Project Name: UMATILLA P.O. No.:

Received Date: 06/19/96 Project No: 96W011 Job Number: 06191522

Received Date: 00/19/90	Hoject No. 96WUII	Job Number.	00171322
Client ID: 9-1-(7)	Profile #: Lab ID: AA04945		
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	1.61	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311	12.0 g	-
Ethyl Acetate	EPA 8015	<250	ug/kg
Methanol	EPA 8015	<250	ug/kg
Isobutyl Alcohol	EPA 8015	<25	ug/kg
N-Butyl Alcohol	EPA 8015	<125	ug/kg
Pyridine	EPA 8015	<25	ug/kg
2-Ethoxyethanol	EPA 8015	<25	ug/kg
Cyclohexanone	EPA 8015	<25	ug/kg
Nitrobenzene	EPA 8015	<25	ug/kg
o-Cresol	EPA 8015	<25	ug/kg
p-Cresol	EPA 8015	<25	ug/kg
m-Cresol	EPA 8015	<25	ug/kg
3015 F-Listed Solvents Surrogat	e		
Bromobenzene 3260 F-LISTED SOLVENTS IN	EPA 8015 SOLIDS	78	%
Ethyl Ether	EPA 8260	<56	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<56	ug/kg
Acetone	EPA 8260	<56	ug/kg
Carbon Disulfide	EPA 8260	<11	ug/kg
Methylene Chloride	EPA 8260	<56	ug/kg
2-Butanone (MEK)	EPA 8260	<56	ug/kg
,1,1-Trichloroethane	EPA 8260	<11	ug/kg
Carbon Tetrachloride	EPA 8260	<11	ug/kg
Benzene	EPA 8260	<11	ug/kg
richloroethene	EPA 8260	<22	ug/kg
-Nitropropane	EPA 8260	<56	ug/kg
- L L			90



BY-PRODUCT RECOVERY GROUP WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96 Project Name: UMATILLA

Sample Collected: 06/19/96 Received Date: 06/19/96

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110jeet 110.90 W011	70071	
Client ID: 9-1-(7)		Profile #: Lab ID: AA04945	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<56	ug/kg
Toluene	EPA 8260	57	ug/kg
1,1,2-Trichloroethane	EPA 8260	<11	ug/kg
Tetrachloroethene	EPA 8260	<11	ug/kg
Chlorobenzene	EPA 8260	<11	ug/kg
Ethylbenzene	EPA 8260	22	ug/kg
m,p-Xylene	EPA 8260	33	ug/kg
o-Xylene	EPA 8260	14	ug/kg
1,3-Dichlorobenzene	EPA 8260	<11	ug/kg
1,4-Dichlorobenzene	EPA 8260	<11	ug/kg
1,2-Dichlorobenzene EPA 8260 Soil VOA\Volatiles	EPA 8260	<11	ug/kg
Dichlorodifluoromethane	EPA 8260	<11	ug/kg
Chloromethane	EPA 8260	<11	ug/kg
Vinyl chloride	EPA 8260	<11	ug/kg
Bromomethane	EPA 8260	<11	ug/kg
Chloroethane	EPA 8260	<11	ug/kg
Trichlorofluoromethane	EPA 8260	<11	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<56	ug/kg
1,1-Dichloroethene	EPA 8260	<11	ug/kg
Ethyl Ether	EPA 8260	<56	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<56	ug/kg
Acetone	EPA 8260	<56	ug/kg
Carbon Disulfide	EPA 8260	<11	ug/kg
2-Methylpentane	EPA 8260	<56	ug/kg
Methylene Chloride	EPA 8260	<56	ug/kg
3-Methylpentane	EPA 8260	<56	ug/kg
Acrylonitrile	EPA 8260	<56	ug/kg
trans-1,2-Dichloroethene	EPA 8260	<11	ug/kg
1,1-Dichloroethane	EPA 8260	<11	ug/kg
Vinyl Acetate	EPA 8260	<11	ug/kg
Methylcyclopentane	EPA 8260	<11	ug/kg
Acrolien	EPA 8260	<222	ug/kg
2,2-Dichloropropane	EPA 8260	<11	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	9-1-(7)	Profile #:
CHCHI ID.	J-1-( / )	

Client ID: 9-1-(7)		Profile #:	•
	<b>Lab ID:</b> AA04945		
Analyte	Method	Result	Units
cis-1,2-Dichloroethene	EPA 8260	<11	ug/kg
2-Butanone (MEK)	EPA 8260	<56	ug/kg
Bromochloromethane	EPA 8260	<11	ug/kg
Tetrahydrofuran	EPA 8260	<56	ug/kg
Chloroform	EPA 8260	<11	ug/kg
1,1,1-Trichloroethane	EPA 8260	<11	ug/kg
1,1-Dichloropropene	EPA 8260	<11	ug/kg
Carbon Tetrachloride	EPA 8260	<11	ug/kg
1,2-Dichloroethane	EPA 8260	<11	ug/kg
Benzene	EPA 8260	<11	ug/kg
Trichloroethene	EPA 8260	<22	ug/kg
1,2-Dichloropropane	EPA 8260	<11	ug/kg
Dibromomethane	EPA 8260	<11	ug/kg
Bromodichloromethane	EPA 8260	<11	ug/kg
2-Nitropropane	EPA 8260	<56	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<11	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<11	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<56	ug/kg
Toluene	EPA 8260	57	ug/kg
1,2,3-Trichloropropane	EPA 8260	<11	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<11	ug/kg
1,1,2-Trichloroethane	EPA 8260	<11	ug/kg
1,3-Dichloropropane	EPA 8260	<11	ug/kg
Tetrachloroethene	EPA 8260	<11	ug/kg
2-Hexanone	EPA 8260	<56	ug/kg
1,2-Dibromoethane	EPA 8260	<11	ug/kg
Dibromochloromethane	EPA 8260	<11	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<33	ug/kg
Chlorobenzene	EPA 8260	<11	ug/kg
Ethylbenzene	EPA 8260	22	ug/kg
m,p-Xylene	EPA 8260	33	ug/kg
o-Xylene	EPA 8260	14	ug/kg
Styrene	EPA 8260	<11	ug/kg
Bromoform	EPA 8260	<11	ug/kg



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011 Job Number: 06		5191522	
Client ID: 9-1-(7)		Profile Lab ID	#: : AA04945	
Analyte seed to be a seed to be	Method	· '* '.	Result **	Units
Isopropylbenzene	EPA 8260		<11	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260		<33	ug/kg
Bromobenzene	EPA 8260		<11	ug/kg
n-propylbenzene	EPA 8260	.*	<11	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	ų.	<11	ug/kg
2-Chlorotoluene	EPA 8260		<11	ug/kg
4-Chlorotoluene	EPA 8260		<11	ug/kg
tert-Butylbenzene	EPA 8260		<11	ug/kg
1,2,4-Trimethylbenzene	EPA 8260		<11	ug/kg
sec-Butylbenzene	EPA 8260		<11	ug/kg
1,3-Dichlorobenzene	EPA 8260		<11	ug/kg
1,4-Dichlorobenzene	EPA 8260		<11	ug/kg
n-Butylbenzene	EPA 8260		<11	ug/kg
p-Isopropyltoluene	EPA 8260		<11	ug/kg
1,2-Dichlorobenzene	EPA 8260		<11	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260		<56	ug/kg
1,2,4-Trichlorobenzene	EPA 8260		<11	ug/kg
Hexachlorobutadiene	EPA 8260		<11	ug/kg
Naphthalene	EPA 8260		<56	ug/kg
1,2,3-Trichlorobenzene	EPA 8260		<11	ug/kg
EPA 8260/624 Surrogate				
1,2-Dichlorethane-D4	EPA 8260		100	%
Toluene-D8	EPA 8260		99	%
4-Bromofluorobenzene	EPA 8260		100	%
EPA 8270 Solid				
N-Nitrosodimethylamine	EPA 8270		<167	ug/kg
Analine	EPA 8270		<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270		<33	ug/kg
Phenoi	EPA 8270		<33	ug/kg
2-Chlorophenol	EPA 8270		<33	ug/kg
1,3-Dichlorobenzene	EPA 8270		<33	ug/kg
1,4-Dichlorobenzene	EPA 8270		<33	ug/kg
1,2-Dichlorobenzene	EPA 8270		<33	ug/kg
Benzyl alcohol	EPA 8270		<67	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270		<33	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	9-1-(7)	Profile #:
	• •	

		<b>Lab ID:</b> AA04945	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	√33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



Philip Environmental Laboratory

To: MARC STRICKLER

### **Analytical Report**

Report Date: 07/15/96

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/96	Project No: 96W011	Job Number: 0	0191322
Client ID: 9-1-(7)		Profile #: Lab ID: AA04945	1.431.47 1.7
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	<33	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33 -	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	85	%
Phenol-d5	EPA 8270	75	%
Nitrobenzene-d5	EPA 8270	83	%
2-Fluorobiphenyl	EPA 8270	46	%
2,4,6-Tribromophenol	EPA 8270	52	%
Terphenyl-d14 BENZENE	EPA 8270	68	%
71-43-2 Benzene	EPA 8260	<1	ug/L



Philip Environmental Laboratory
955 Powell Avenue S.W.

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

9-1-(7)

Profile #:

Lab ID: AA04945

Analyte

TX by Dohrmann

**Method** 9076

Result <500

Units -

الرغام:

•>#

ppm



To: MARC STRICKLER

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### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

.

Client ID:

11-1-(1)

Profile #:

``		Lab ID: AA04946	
Analyte	Method	Result	Units
WTPH-HCID Soil			•
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	1600	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.23	mg/kg
Arcolor-1221	EPA 8080	< 0.23	mg/kg
Aroclor-1232	EPA 8080	< 0.23	mg/kg
Aroclor-1242	EPA 8080	< 0.23	mg/kg
Aroclor-1248	EPA 8080	< 0.23	mg/kg
Aroclor-1254	EPA 8080	< 0.23	mg/kg
Aroclor-1260	EPA 8080	< 0.23	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	84	%
DCB	EPA 8080	82	%
EPA 8081 Pesticide Surrogates	•		
TCX	EPA 8081	Interference	%
DCB	EPA 8081	Interference	%
TCLP Pesticides			
319-84-6 alpha-BHC	1311/8080	<.0004	ug/L
58-89-9 gamma-BHC (Lindane)		<.0004	ug/L
	1311/8080	40.1	ug/L
309-00-2 Aldrin	1311/8080	<.0004	ug/L
319-85-7 beta-BHC	1311/8080	<.0004	ug/L
319-86-8 delta-BHC	1311/8080	<.0004	ug/L
1024-57-3 Heptachlor Epoxide	1311/8080	<.0004	ug/L
959-98-8 Endosulfan I	1311/8080	<.0004	ug/L
5103-74-2 gamma-Chlordane	1311/8080	<.0004	ug/L
5103-71-9 alpha-Chlordane	1311/8080	<.0004	ug/L
72-55-9 4,4'-DDE	1311/8080	<.0008	ug/L
60-57-1 Dieldrin	1311/8080	<.0008	ug/L
72-20-8 Endrin	1311/8080	<.0008	ug/L
3213-65-9 Endosulfan II	1311/8080	<.0008	ug/L
72-54-8 4,4'-DDD	1311/8080	<.0008	ug/L
50-29-3 4,4'-DDT	1311/8080	<.0008	ug/L



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Generator: UMATILLA ARMY Project Name: UMATILLA

P.O. No.:

Work Order No.:

Received Date: 06/19/96

Project No: 96W011

Job Number: 06191522

Profile #: Client ID: 11-1-(1)

Analyte	Method	Result	Units	
7421-36-3 Endrin Aldehyde	1311/8080	<.0008	ug/L	
1031-07-8 Endosulfan Sulfate 22-72-43-5 Methoxychlor	1311/8080	21.4	throug/L	
72-43-5 Methoxychlor	1311/8080	<.002	ug/L	
53494-70-5 Endrin Ketone	1311/8080	<.0008	ug/L	
8001-35-2 Toxaphene	1311/8080	<.002	ug/L	
WTPH Diesel Surrogates			•	
Bromobenzene	WTPH-D	138	%	
Ortho-terphenyl	WTPH-D	168	%	



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### **Analytical Report**

Work Order No.: Generator: UMATILLA ARMY

To: MARC STRICKLER

Report Date: 07/15/96 P.O. No.: Project Name: UMATILLA Sample Collected: 06/19/96

Job Number: 06191522 Received Date: 06/19/96 Project No: 96W011

Profile #: Client ID: 12-1-(13) Lab ID: AA04947 Analyte Method Result Units ... WTPH-HCID Water

Gasoline WTPH-HCID <20 mg/L Diesel WTPH-HCID <50 mg/L 690 **Motor Oil** WTPH-HCID mg/L WTPH Diesel Surrogates

% Bromobenzene WTPH-D 124 Ortho-terphenyl WTPH-D 145 %



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### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

12-2-(14)

Profile #:

2		Lab ID: AA04948	•
Analyte WTPH-HCID Soil	Method	Result	Units
	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	6600	mg/kg
Motor Oil WTPH Diesel Surrogates	WTPH-HCID	<100	mg/kg
Bromobenzene	WTPH-D	124	%
Ortho-terphenyl	WTPH-D	Interference	%



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To: MARC STRICKLER

**Analytical Report** 

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID: 12-3-(14) Profile #:

		Lab ID: AA04949	
Analyte of Artyrologists of the first of the	Method	Result	Units
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	114	%
Ortho-terphenyl	WTPH-D	141	%



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# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

12-4-(13)

Profile #:

		LIEU LIDE TAXAUTION	
Analyte	Method	Result	Units
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	118	%
Ortho-terphenyl	WTPH-D	149	%



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#### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

12-5-(13)

Profile #:

		Lau ID: AA04951	
Analyte	Method	Result	Units
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	109	%
Ortho-terphenyl	WTPH-D	125	%



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### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

12-6-(13)

Profile #:

		DED 10. AA04932	received the
Analyte	Method	Result	Units
WTPH-HCID Soil			٠,
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			100
Bromobenzene	WTPH-D	110	%
Ortho-terphenyl	WTPH-D	125	%
			4



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# **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

12-7-(12)

Profile #:

•		Lab ID: AA04953	
Analyte	Method	Result	Units
WTPH-HCID	Soil		•
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	3500	mg/kg
. Motor Oil	WTPH-HCID	3200	mg/kg
WTPH Diesel	Surrogates		W.
Bromobenzene	WTPH-D	130	%
Ortho-terpheny	vi WTPH-D	Interference	%



WESTERN REGION To: MARC STRICKLER

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#### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY
Project Name: UMATILLA
Project No: 96W011

Work Order No.:
P.O. No.:
Job Number: 06191522

Profile #: Client ID: 15-1-(4) Lab ID: AA04954 Analyte Method Result Units mg/L EPA 6010 < 0.0114 Silver EPA 6010 < 0.114mg/L Arsenic 1.05 mg/L Barium EPA 6010 < 0.0057 mg/L EPA 6010 Cadmium **EPA 6010** < 0.0114 mg/L Chromium < 0.057 mg/L **EPA 6010** Mercury < 0.114 mg/L Lead EPA 6010 < 0.342 mg/L Selenium EPA 6010 100 g TCLP (Extraction Procedure) EPA 1311 8015 F-Listed Solvents in Solids <50 ug/kg Ethyl Acetate EPA 8015 EPA 8015 <50 ug/kg Methanol Isobutyl Alcohol **EPA 8015** <5 ug/kg <25 ug/kg N-Butyl Alcohol **EPA 8015** <5 Pyridine EPA 8015 ug/kg <5 2-Ethoxyethanol EPA 8015 ug/kg <5 ug/kg Cyclohexanone **EPA 8015** <5 Nitrobenzene EPA 8015 ug/kg <5 ug/kg o-Cresol EPA 8015 <5 ug/kg EPA 8015 p-Cresol **EPA 8015** <5 ug/kg m-Cresol 8015 F-Listed Solvents Surrogate % 120 **EPA 8015** Bromobenzene 8260 F-LISTED SOLVENTS IN SOLIDS Ethyl Ether **EPA 8260** <6 ug/kg <6 ug/kg 1,1,2-Trichlorotrifluorethane **EPA 8260** <6 ug/kg Acetone **EPA 8260** <1 ug/kg Carbon Disulfide **EPA 8260** <6 **EPA 8260** ug/kg Methylene Chloride **EPA 8260** <6 ug/kg 2-Butanone (MEK) <1 ug/kg 1,1,1-Trichloroethane **EPA 8260** <1 ug/kg Carbon Tetrachloride EPA 8260 <1 ug/kg Benzene **EPA 8260 EPA 8260** <3 ug/kg Trichloroethene **EPA 8260** <6 ug/kg 2-Nitropropane



Work Order No.:

Job Number: 06191522

P.O. No.:

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### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96 Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Lab ID: AA04954

Profile #: Client ID: 15-1-(4)

Edu ID. MOTOUT			
Analyte	· Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<6	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<1	ug/kg
Chloromethane	EPA 8260	<1	ug/kg
Vinyl chloride	<b>EPA 8260</b>	<1	ug/kg
Bromomethane	<b>EPA 8260</b>	<1	ug/kg
Chloroethane	EPA 8260	<1	ug/kg
Trichlorofluoromethane	EPA 8260	<1	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<6	ug/kg
1,1-Dichloroethene	EPA 8260	<1	ug/kg
Ethyl Ether	EPA 8260	<6	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<6	ug/kg
Acetone	EPA 8260	<6	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
2-Methylpentane	EPA 8260	<6	ug/kg
Methylene Chloride	EPA 8260	<6	ug/kg
3-Methylpentane	EPA 8260	<6	ug/kg
Acrylonitrile	EPA 8260	<6	ug/kg
rans-1,2-Dichloroethene	EPA 8260	<1	ug/kg
1,1-Dichloroethane	EPA 8260	<1	ug/kg
Vinyl Acetate	EPA 8260	<1	ug/kg
Methylcyclopentane	EPA 8260	<1	ug/kg
Acrolien	EPA 8260	<26	ug/kg
	EFA 0200	<b>~</b> 20	ug/kg



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### **Analytical Report**

Generator: UMATILLA ARMY

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Project Name: UMATILLA

Work Order No.: P.O. No.:

Project No: 96W011

	<u> </u>	l	
Client ID: 15-1-(4)		Profile #: Lab ID: AA04954	
Analyte	Method	Result	Units
cis-1,2-Dichloroethene	EPA 8260	<1	ug/kg
2-Butanone (MEK)	EPA 8260	<6	ug/kg
Bromochloromethane	EPA 8260	<1	ug/kg
Tetrahydrofuran	EPA 8260	<6	ug/kg
Chloroform	EPA 8260	<1	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
1,1-Dichloropropene	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
1,2-Dichloroethane	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
1,2-Dichloropropane	EPA 8260	<1	ug/kg
Dibromomethane	EPA 8260	<1	ug/kg
Bromodichloromethane	EPA 8260	<1	ug/kg
2-Nitropropane	EPA 8260	<6	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<1	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<1	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<6	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,2,3-Trichloropropane	EPA 8260	<1	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<1	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
1,3-Dichloropropane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
2-Hexanone	EPA 8260	<6	ug/kg
1,2-Dibromoethane	EPA 8260	<1	ug/kg
Dibromochloromethane	EPA 8260	<1	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<4	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
n,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
Styrene	EPA 8260	<1	ug/kg
Bromoform	EPA 8260	<1	ug/kg
			_ <del>_</del>



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.:

P.O. No.:

Client ID:         15-1-(4)         Profile #: Lab ID:         AA04954           Analyte         Method         Result         Units           Isopropylbenzene         EPA 8260         <1         ug/kg           1,1,2,2-Tetrachloroethane         EPA 8260         <4         ug/kg           Bromobenzene         EPA 8260         <1         ug/kg           n-propylbenzene         EPA 8260         <1         ug/kg           1,3,5-Trimethylbenzene         EPA 8260         <1         ug/kg           2-Chlorotoluene         EPA 8260         <1         ug/kg	Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522	
Isopropylbenzene         EPA 8260         <1	Client ID: 15-1-(4)			
1,1,2,2-TetrachloroethaneEPA 8260<4	Analyte	Method	Result	Units
1,1,2,2-Tetrachloroethane       EPA 8260       <4	Isopropylbenzene	EPA 8260	<1	ug/kg
Bromobenzene EPA 8260 <1 ug/kg n-propylbenzene EPA 8260 <1 ug/kg 1,3,5-Trimethylbenzene EPA 8260 <1 ug/kg	1,1,2,2-Tetrachloroethane	EPA 8260	<4	
n-propylbenzene EPA 8260 <1 ug/kg 1,3,5-Trimethylbenzene EPA 8260 <1 ug/kg	Bromobenzene	EPA 8260	<1	
1,3,5-Trimethylbenzene EPA 8260 <1 ug/kg	. n-propylbenzene	EPA 8260	<1	
- A - A - A - A - A - A - A - A - A - A	1,3,5-Trimethylbenzene	EPA 8260	<1	
2-Chlorocoluene ErA 8200 <1 ug/kg	2-Chlorotoluene	EPA 8260	<1	ug/kg
4-Chlorotoluene EPA 8260 <1 ug/kg	4-Chlorotoluene	EPA 8260	<1	
tert-Butylbenzene EPA 8260 <1 ug/kg	tert-Butylbenzene	EPA 8260	<1	
1,2,4-Trimethylbenzene EPA 8260 <1 ug/kg	1,2,4-Trimethylbenzene	EPA 8260	<1	
sec-Butylbenzene EPA 8260 <1 ug/kg	sec-Butylbenzene	EPA 8260	<1	
1,3-Dichlorobenzene EPA 8260 <1 ug/kg	1,3-Dichlorobenzene	EPA 8260	<1	
1,4-Dichlorobenzene EPA 8260 <1 ug/kg	1,4-Dichlorobenzene	EPA 8260	<1	
n-Butylbenzene EPA 8260 <1 ug/kg	n-Butylbenzene	EPA 8260	<1	
p-Isopropyltoluene EPA 8260 <1 ug/kg	p-Isopropyltoluene	EPA 8260	<1	
1,2-Dichlorobenzene EPA 8260 <1 ug/kg	1,2-Dichlorobenzene	EPA 8260	<1	
1,2-Dibromo-3-chloropropane EPA 8260 <6 ug/kg	1,2-Dibromo-3-chloropropane	EPA 8260	<6	ug/kg
1,2,4-Trichlorobenzene EPA 8260 <1 ug/kg	1,2,4-Trichlorobenzene	EPA 8260	<1	
Hexachlorobutadiene EPA 8260 <1 ug/kg	Hexachlorobutadiene	EPA 8260	<1	
Naphthalene EPA 8260 <6 ug/kg	Naphthalene	EPA 8260	<6	
1,2,3-Trichlorobenzene EPA 8260 <1 ug/kg	1,2,3-Trichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate				
1,2-Dichlorethane-D4 EPA 8260 110 %		EPA 8260	110	%
Toluene-D8 EPA 8260 100 %		EPA 8260	100	%
4-Bromofluorobenzene EPA 8260 100 %		EPA 8260	100	%
EPA 8270 Solid				
N-Nitrosodimethylamine EPA 8270 <167 ug/kg	N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine EPA 8270 <167 ug/kg		EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether EPA 8270 <33 ug/kg	•	EPA 8270	<33	ug/kg
Phenol EPA 8270 <33 ug/kg	Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol EPA 8270 <33 ug/kg	2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene EPA 8270 <33 ug/kg		EPA 8270	<33	ug/kg
1,4-Dichlorobenzene EPA 8270 <33 ug/kg		EPA 8270	<33	ug/kg
1,2-Dichlorobenzene EPA 8270 <33 ug/kg	•	EPA 8270	<33	ug/kg
Benzyl alcohol EPA 8270 <67 ug/kg	•	EPA 8270	<67	ug/kg
bis(2-chloroisopropyl)ether EPA 8270 <33 ug/kg	bis(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg



W mv To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	15-1-(4)		Profile	e #:

Chem 1D: 13-1-(4)		Lab ID: AA04954	***. **
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33 <sup>*</sup>	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
. N-Nitroso-di-n-propylamine	EPA 8270	<33 ⋅	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33 -	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	u <b>g</b> /kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



Philip Environmental Laboratory

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# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Generator: UMATILLA ARMY

Work Order No.:

Sample Collected: 06/19/96

Project Name: UMATILLA

P.O. No.:

Received Date: 06/19/96

Project No: 96W011

Client ID: 15-1-(4)		Profile #: Lab ID: AA04954	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene '	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	<33	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
ois(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
ndeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene EPA 8270/625 Surrogate	EPA 8270	<33	ug/kg
2-Fluorophenol	EPA 8270	38	%
Phenol-d5	EPA 8270	35	%
Nitrobenzene-d5	EPA 8270	83	%
-Fluorobiphenyl	EPA 8270	48	%
2,4,6-Tribromophenol	EPA 8270	74	%
Cerphenyl-d14 BENZENE	EPA 8270	81	%
1-43-2 Benzene	EPA 8260	<1	ug/L



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### **Analytical Report**

To: MARC STRICKLER

Work Order No.: Generator: UMATILLA ARMY Report Date: 07/15/96 Project Name: UMATILLA P.O. No.: Sample Collected: 06/19/96 Job Number: 06191522 Received Date: 06/19/96 Project No: 96W011 Profile #: Client ID: 15-1-(4) Lab ID: AA04954 Analyte Method setur individu Result Units : ppm TX by Dohrmann 9076 <500



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### **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY | Work Order No.: Sample Collected: 06/19/96 | Project Name: UMATILLA | P.O. No.:

Received Date: 06/19/96 Project No: 96W011 Job Number: 06191522

Received Date	e: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID:	15-2-(8)		rofile #:	
	1	L	ab ID: AA04955	
Analyte	Supplied to the supplied of	Method	Result	Units
Silver		EPA 6010	< 0.0114	mg/L
Arsenic		EPA 6010	< 0.114	mg/L
Barium		EPA 6010	1.06	mg/L
Cadmium		EPA 6010	< 0.0057	mg/L
Chromium		EPA 6010	< 0.0114	mg/L
Mercury		EPA 6010	< 0.057	mg/L
Lead		EPA 6010	< 0.114	mg/L
Selenium		EPA 6010	< 0.342	mg/L
TCLP (Extract	ion Procedure)	EPA 1311	50.0 g	
8015 F-Listed	Solvents in Solids			
Ethyl Acetate		EPA 8015	<50	ug/kg
Methanol		EPA 8015	<50	ug/kg
Isobutyl Alcoh	ol	EPA 8015.	<5	ug/kg
N-Butyl Alcoh	ol	EPA 8015	<25	ug/kg
Py <del>r</del> idine		EPA 8015	<5	ug/kg `
2-Ethoxyethan	ol	EPA 8015	<5	ug/kg
Cyclohexanone	<del>)</del>	EPA 8015	<5	ug/kg
Nitrobenzene		EPA 8015	<5	ug/kg
o-Cresol		EPA 8015	<5	ug/kg
p-Cresol		EPA 8015	<5	ug/kg
m-Cresol		EPA 8015	<5	ug/kg
	Solvents Surrogate			
Bromobenzene		EPA 8015	95	%
	D SOLVENTS IN SO		.4.4	<b>a</b>
Ethyl Ether		EPA 8260	<11	ug/kg
l,1,2-Trichloro	trifluorethane	EPA 8260	<11	ug/kg
Acetone		EPA 8260	13	ug/kg
Carbon Disulfic		EPA 8260	<2	ug/kg
Methylene Chlo		EPA 8260	<11	ug/kg
2-Butanone (M)		EPA 8260	<11	ug/kg
,1,1-Trichloroe		EPA 8260	<2	ug/kg
Carbon Tetrach	loride	EPA 8260	<2	ug/kg
Benzene		EPA 8260	<2	ug/kg
richloroethene		EPA 8260	<4	ug/kg
-Nitropropane		EPA 8260	24	ug/kg



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### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 15-2-(8)		Profile #:	
		Lab ID: AA04955	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<11	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260 Soil VOA\Volatiles			
Dichlorodifluoromethane	EPA 8260	<2	ug/kg
Chloromethane	EPA 8260	<2	ug/kg
Vinyl chloride	EPA 8260	<2	ug/kg
Bromomethane	EPA 8260	<2	ug/kg
Chloroethane	EPA 8260	<2	ug/kg
Trichlorofluoromethane	EPA 8260	<2	ug/kg
1,1-DichloroTrifluoroethane	EPA 8260	<11	ug/kg
1,1-Dichloroethene	EPA 8260	<2	ug/kg
Ethyl Ether	EPA 8260	<11	ug/kg
1,1,2-Trichlorotrifluoroethane	EPA 8260	<11	ug/kg
Acetone	EPA 8260	13	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
2-Methylpentane	EPA 8260	<11	ug/kg
Methylene Chloride	EPA 8260	<11	ug/kg
3-Methylpentane	EPA 8260	<11	ug/kg
Acrylonitrile	EPA 8260	<11	ug/kg
rans-1,2-Dichloroethene	EPA 8260	<2	ug/kg
1,1-Dichloroethane	EPA 8260	<2	ug/kg
Vinyl Acetate	EPA 8260	<2	ug/kg
Methylcyclopentane	EPA 8260	<2	ug/kg
Acrolien	EPA 8260	<44	ug/kg
2,2-Dichloropropane	EPA 8260	<2	ug/kg
			.5 5



To: MARC STRICKLER

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### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Received Date: 06/19/96 Project No: 96W011 Work Order No.:

P.O. No.:

Job Number: 06191522

15-2-(8) Profile #: Client ID: Tab ID. A A04055

		<b>Lab ID:</b> AA04955	
Analyte	Method	Result	Units
cis-1,2-Dichloroethene	EPA 8260	<2	ug/kg
2-Butanone (MEK)	EPA 8260	<11	ug/kg
Bromochloromethane	EPA 8260	<2	ug/kg
. Tetrahydrofuran	EPA 8260	<11	ug/kg
Chloroform	EPA 8260	<2	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
1,1-Dichloropropene	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
1,2-Dichloroethane	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
1,2-Dichloropropane	EPA 8260	<2	ug/kg
Dibromomethane	EPA 8260	<2	ug/kg
Bromodichloromethane	EPA 8260	<2	ug/kg
2-Nitropropane	EFA 8260	24	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<2	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<2	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<11	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,2,3-Trichloropropane	EPA 8260	<2	ug/kg
Trans-1,3-Dichloropropene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
1,3-Dichloropropane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
2-Hexanone	EPA 8260	<11	ug/kg
1,2-Dibromoethane	EPA 8260	<2	ug/kg
Dibromochloromethane	EPA 8260	<2	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260	<7	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
Styrene	EPA 8260	<2	ug/kg
Bromoform	EPA 8260	<2	ug/kg



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# **Analytical Report**

Report Date: 07/15/96 Generator: UMATILLA ARMY Project Name: UMATILLA Sample Collected: 06/19/96

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 15-2-(8)		Profile #:	
		Lab ID: AA04955	
Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<2	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<7	ug/kg
Bromobenzene	EPA 8260	<2	ug/kg
n-propylbenzene	EPA 8260	7.2	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	30	ug/kg
2-Chlorotoluene	EPA 8260	5.8	ug/kg
4-Chlorotoluene	EPA 8260	<2	ug/kg
tert-Butylbenzene	EPA 8260	4.7	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	36	ug/kg
sec-Butylbenzene	EPA 8260	9.3	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
n-Butylbenzene	EPA 8260	13	ug/kg
p-Isopropyltoluene	EPA 8260	810	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<11	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<2	ug/kg
Hexachlorobutadiene	EPA 8260	<2 -	ug/kg
Naphthalene	EPA 8260	<11	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	96	%
4-Bromofluorobenzene	EPA 8260	99	%
EPA 8270 Solid			
N-Nitrosodimethylamine	EPA 8270	<1670	ug/kg
Analine	EPA 8270	<1670	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<330	ug/kg
Phenol	EPA 8270	<330	ug/kg
2-Chlorophenol	EPA 8270	<330	ug/kg
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg
Benzyl alcohol	EPA 8270	<670	ug/kg
bis(2-chloroisopropyl)ether	EPA 8270	<330	ug/kg
			- ·



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FAX 206.227.6196

### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	15-2-(8)	Profile #:	
	,	<b>Lab ID:</b> AA04955	

		Lau ID: AA04933	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<330	ug/kg
Acetophenone	EPA 8270	<1670	ug/kg
Hexachloroethane	EPA 8270	<330	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<330	ug/kg
4-Methylphenol	EPA 8270	<330	ug/kg
Nitrobenzene	EPA 8270	<330	ug/kg
Isophorone	EPA 8270	<330	ug/kg
2-Nitrophenol	EPA 8270	<330	ug/kg
2,4-Dimethylphenol	EPA 8270	<330	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<330	ug/kg
2,4-Dichlorophenol	EPA 8270	<330	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg
Naphthalene	EPA 8270	<330	ug/kg
4-Chloroaniline	EPA 8270	<670	ug/kg
Hexachlorobutadiene	EPA 8270	<330	ug/kg
Benzoic Acid	EPA 8270	<1670	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<670	ug/kg
2-Methylnaphthalene	EPA 8270	<330	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<330	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg
2-Chloronaphthalene	EPA 8270	<330	ug/kg
2-Nitroaniline	EPA 8270	<670	ug/kg
Acenaphthylene	EPA 8270	<330	ug/kg
Dimethylphthalate	EPA 8270	<330	ug/kg
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg
Acenaphthene	EPA 8270	<330	ug/kg
3-Nitroaniline	EPA 8270	<1670	ug/kg
2,4-Dinitrophenol	EPA 8270	<1670	ug/kg
Dibenzofuran	EPA 8270	<1670	ug/kg
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg
4-Nitrophenol	EPA 8270	<330	ug/kg
Fluorene	EPA 8270	<330	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<330	ug/kg
• • •			



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Report Date: 07/15/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA Project No. 06W011

Work Order No.:

P.O. No.:

Sample Collected: 00/13/30	Troject Name. UMATILLA	1 .0. 110	
Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 15-2-(8)		file #:	
	Lal	ID: AA04955	•
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<330	ug/kg
4-Nitroaniline	EPA 8270	<1670	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<1670	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg
Azobenzene	EPA 8270	<330	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<330	ug/kg
Hexachlorobenzene	EPA 8270	<330	ug/kg
Pentachlorophenol	EPA 8270	<1670	ug/kg
Phenanthrene	EPA 8270	<330	ug/kg
Anthracene	EPA 8270	<330	ug/kg
Di-n-butylphthalate	EPA 8270	<330	ug/kg
Fluoranthene	EPA 8270	<330	ug/kg
Benzidine	EPA 8270	<330	ug/kg
Pyrene	EPA 8270	<330	ug/kg
Butylbenzylphthalate	EPA 8270	<330	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<330	ug/kg
Benzo[a]anthracene	. EPA 8270	<670	ug/kg
Chrysene	EPA 8270	<330	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<1670	ug/kg
Di-n-octylphthalate	EPA 8270	<330	ug/kg
Benzo[b]fluoranthene	EPA 8270	<330	ug/kg
Benzo[k]fluoranthene	EPA 8270	<330	ug/kg
Benzo[a]pyrene	EPA 8270	<330	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<330	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<330	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<330	ug/kg
EPA 8270/625 Surrogate			
2-Fluorophenol	EPA 8270	75	%
Phenol-d5	EPA 8270	73	%
Nitrobenzene-d5	EPA 8270	64	%
2-Fluorobiphenyl	EPA 8270	96	%
2,4,6-Tribromophenol	EPA 8270	112	· %
Terphenyl-d14 BENZENE	EPA 8270	117	%
71-43-2 Benzene	EPA 8260	5.8	ug/L



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

15-2-(8)

Profile #:

Lab ID: AA04955

Analyte TX by Dohrmann Method

9076

Result <500

Units

ppm



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### **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY
Sample Collected: 06/19/96 | Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W01

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 17-1-(4)		Profile #: Lab ID: AA04956	
Analyte	Mathad		TT:4-
•	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.696	mg/L
Claration	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium TOLD TOLD TOLD TOLD TOLD TOLD TOLD TOLD	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solid	EPA 1311	34.0 g	·
		<b>~100</b>	
Ethyl Acetate Methanol	EPA 8015	<100	ug/kg
	EPA 8015	<100	ug/kg
Isobutyl Alcohol	EPA 8015	<10	ug/kg
N-Butyl Alcohol	EPA 8015	<50	ug/kg
Pyridine 2. Edward and 1	EPA 8015	<10	ug/kg
2-Ethoxyethanol	EPA 8015	<10	ug/kg
Cyclohexanone	EPA 8015	<10	ug/kg
Nitrobenzene	EPA 8015	<10	ug/kg
o-Cresol	EPA 8015	<10	ug/kg
p-Cresol	EPA 8015	<10	ug/kg
m-Cresol	EPA 8015	<10	ug/kg
8015 F-Listed Solvents Surroga		100	0/
Bromobenzene 8260 F-LISTED SOLVENTS II	EPA 8015	100	%
Ethyl Ether	EPA 8260	<43	ua/ka
_	EPA 8260	<43	ug/kg
1,1,2-Trichlorotrifluorethane			ug/kg
Acetone Contrar Disulfida	EPA 8260	<43	ug/kg
Carbon Disulfide	EPA 8260	<9	ug/kg
Methylene Chloride	EPA 8260	<43	ug/kg
2-Butanone (MEK)	EPA 8260	<43	ug/kg
1,1,1-Trichloroethane	EPA 8260	<9	ug/kg
Carbon Tetrachloride	EPA 8260	<9	ug/kg
Benzene	EPA 8260	<9	ug/kg
Trichloroethene	EPA 8260	<17	ug/kg
2-Nitropropane	EPA 8260	<43	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	17-1-(4)	Profile #:
		Lab ID: AA04956

	Lab ID: AA04956			
Analyte	Method	Result	Units	
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<43	ug/kg	
Toluene	EPA 8260	110	ug/kg	
1,1,2-Trichloroethane	EPA 8260	<9	ug/kg	
. Tetrachloroethene	EPA 8260	<9	ug/kg	
Chlorobenzene	EPA 8260	<9	ug/kg	
Ethylbenzene	EPA 8260	57	ug/kg	
m,p-Xylene	EPA 8260	220	ug/kg	
o-Xylene	EPA 8260	38	ug/kg	
1,3-Dichlorobenzene	EPA 8260	<9	ug/kg	
1,4-Dichlorobenzene	EPA 8260	<9	ug/kg	
1,2-Dichlorobenzene	EPA 8260	<9	ug/kg	
EPA 8260 Soil VOA\Volatiles				
Dichlorodifluoromethane	EPA 8260	<9	ug/kg	
Chloromethane	EPA 8260	<9	ug/kg	
Vinyl chloride	EPA 8260	<9	ug/kg	
Bromomethane	EPA 8260	<9	ug/kg	
Chloroethane	EPA 8260	<9	ug/kg	
Trichlorofluoromethane	EPA 8260	<9	ug/kg	
1,1-DichloroTrifluoroethane	EPA 8260	<43	ug/kg	
1,1-Dichloroethene	EPA 8260	<9	ug/kg	
Ethyl Ether	EPA 8260	<43	ug/kg	
1,1,2-Trichlorotrifluoroethane	EPA 8260	<43	ug/kg	
Acetone	EPA 8260	<43	ug/kg	
Carbon Disulfide	EPA 8260	<9	ug/kg	
2-Methylpentane	EPA 8260	<43	ug/kg	
Methylene Chloride	EPA 8260	<43	ug/kg	
3-Methylpentane	EPA 8260	<43	ug/kg	
Acrylonitrile	EPA 8260	<43	ug/kg	
trans-1,2-Dichloroethene	EPA 8260	<9	ug/kg	
1,1-Dichloroethane	EPA 8260	<9	ug/kg	
Vinyl Acetate	EPA 8260	<9	ug/kg	
Methylcyclopentane	EPA 8260	<9	ug/kg	
Acrolien	EPA 8260	<172	ug/kg	
2,2-Dichloropropane	EPA 8260	<9	ug/kg	



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Sample Collected: 06/19/96

Report Date: 07/15/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	·	Job Number:	06191522
Client ID: 17-1-(4)	· · · · · · · · · · · · · · · · · · ·	Profi Lab	ile #: ID: AA04956	•
Analyte	Method	.gr - 25 Au	Result	Units
cis-1,2-Dichloroethene	EPA 8260		<9	ug/kg
2-Butanone (MEK)	EPA 8260		<43	ug/kg
Bromochloromethane	EPA 8260		<9	ug/kg
Tetrahydrofuran	EPA 8260		<43	ug/kg
Chloroform	EPA 8260		<9	ug/kg
1,1,1-Trichloroethane	EPA 8260		<9	ug/kg
1,1-Dichloropropene	EPA 8260		<9	ug/kg
Carbon Tetrachloride	EPA 8260		<9	ug/kg
1,2-Dichloroethane	EPA 8260		<9	ug/kg
Benzene	EPA 8260		<9	ug/kg
Trichloroethene	EPA 8260	•	<17	ug/kg
1,2-Dichloropropane	EPA 8260		<9	ug/kg
Dibromomethane	EPA 8260		<9	ug/kg
Bromodichloromethane	EPA 8260		<9	ug/kg
2-Nitropropane	EPA 8260	•	<43	ug/kg
2-Chlorethyl vinyl ether	EPA 8260		<9	ug/kg
cis-1,3-Dichloropropene	EPA 8260		<9	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260		<43	ug/kg
Toluene	EPA 8260		110	ug/kg
1,2,3-Trichloropropane	EPA 8260		<9	ug/kg
Trans-1,3-Dichloropropene	EPA 8260		<9	ug/kg
1,1,2-Trichloroethane	EPA 8260		<9	ug/kg
1,3-Dichloropropane	EPA 8260		<9	ug/kg
Tetrachloroethene	EPA 8260		<9	ug/kg
2-Hexanone	EPA 8260		<43	ug/kg
1,2-Dibromoethane	EPA 8260		<9	ug/kg
Dibromochloromethane	EPA 8260		<9	ug/kg
1,1,1,2-Tetrachloroethane	EPA 8260		<26	ug/kg
Chlorobenzene	EPA 8260		<9	ug/kg
Ethylbenzene	EPA 8260		57	ug/kg
m,p-Xylene	EPA 8260		220	ug/kg
o-Xylene	EPA 8260		38	ug/kg
Styrene	EPA 8260		<9	ug/kg
Bromoform	EPA 8260		<9	ug/kg



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Report Date: 07/15/96

Sample Collected: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Ich Number: 06191522

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: 17-1-(4)		Profile #: Lab ID: AA04956	
Analyte	Method	Result	Units
Isopropylbenzene	EPA 8260	<9	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<26	ug/kg
Bromobenzene	EPA 8260	<9	ug/kg
n-propylbenzene	EPA 8260	<9	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	42	ug/kg
2-Chlorotoluene	EPA 8260	<9	ug/kg
4-Chlorotoluene	EPA 8260	<9	ug/kg
tert-Butylbenzene	EPA 8260	<9	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<9	ug/kg
sec-Butylbenzene	EPA 8260	<9	ug/kg
1,3-Dichlorobenzene	EPA 8260	<9	ug/kg
1,4-Dichlorobenzene	EPA 8260	<9	ug/kg
n-Butylbenzene	EPA 8260	<9	ug/kg
p-Isopropyltoluene	EPA 8260	<9	ug/kg
1,2-Dichlorobenzene	EPA 8260	<9	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<43	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<9	ug/kg
Hexachlorobutadiene	EPA 8260	<9	ug/kg
Naphthalene	EPA 8260	<43	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<9	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	140	%
Toluene-D8	EPA 8260	65	%
4-Bromofluorobenzene E <b>PA 8270 Solid</b>	EPA 8260	73	%
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
ois(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
,3-Dichlorobenzene	EPA 8270	<33	ug/kg
,4-Dichlorobenzene	EPA 8270	<33	ug/kg
,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg
is(2-chloroisopropyl)ether	EPA 8270	<33	ug/kg
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Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110

**Analytical Report** 

To: MARC STRICKLER

Report Date: 07/15/96

FAX 206.227.6196

Sample Collected: 06/19/96

Received Date: 06/19/96

4-Chlorophenyl-phenylether

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

<33

ug/kg

Job Number: 06191522

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Client ID: 17-1-(4)		Profile #:	
		Lab ID: AA04956	· .
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
ois(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33 ⋅	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
1-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
I-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
-lexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
-Chloronaphthalene	EPA 8270	<33	ug/kg
-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
-Nitroaniline	EPA 8270	<167	ug/kg
,4-Dinitrophenol	EPA 8270	<167	ug/kg
) Dibenzofuran	EPA 8270	<167	ug/kg
,4-Dinitrotoluene	EPA 8270	<33	ug/kg
-Nitrophenol	EPA 8270	<33	ug/kg
luorene	EPA 8270	<33	ug/kg

**EPA 8270** 



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	17-1-(4)	Profile #:
	· /	<b>Lab ID:</b> AA04956

		Lab ID: AA04956	
Analyte	Method	Result	Units
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	<33	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate			
2-Fluorophenol	EPA 8270	28	%
Phenol-d5	EPA 8270	54	%
Nitrobenzene-d5	EPA 8270	65	%
2-Fluorobiphenyl	EPA 8270	67	%
2,4,6-Tribromophenol	EPA 8270	70	%
Terphenyl-d14 BENZENE	EPA 8270	70	%
71-43-2 Benzene	EPA 8260	<1	ug/L



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

To: MARC STRICKLER

#### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

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Client ID:

17-1-(4)

Profile #:

Lab ID: AA04956

Analyte Method Units Result TX by Dohrmann 9076 <500 ppm



Philip Environmental Laboratory

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96 Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 66/19/96	11030011019011011		
Client ID: 17-2-BWK		Profile #: Lab ID: AA04957	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.466	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	52.0 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<100	ug/kg
Methanol	EPA 8015	<100	ug/kg
Isobutyl Alcohol	EPA 8015	<10	ug/kg
N-Butyl Alcohol	EPA 8015	<50	ug/kg
Pyridine	EPA 8015	<10	ug/kg
2-Ethoxyethanol	EPA 8015	<10	ug/kg
Cyclohexanone	EPA 8015	<10	ug/kg
Nitrobenzene	EPA 8015	<10	ug/kg
o-Cresol	EPA 8015	<10	ug/kg
p-Cresol	EPA 8015	<10	ug/kg
m-Cresol	EPA 8015	<10	ug/kg
8015 F-Listed Solvents Surrogat	e		
Bromobenzene	EPA 8015	99	%
8260 F-LISTED SOLVENTS IN			•
Ethyl Ether	EPA 8260	<50	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<50	ug/kg
Acetone	EPA 8260	<50	ug/kg
Carbon Disulfide	EPA 8260	<10	ug/kg
Methylene Chloride	EPA 8260	<50	ug/kg
2-Butanone (MEK)	EPA 8260	<50	ug/kg
1,1,1-Trichloroethane	EPA 8260	<10	ug/kg
Carbon Tetrachloride	EPA 8260	<10	ug/kg
Benzene	EPA 8260	<10	ug/kg
Trichloroethene	EPA 8260	<20	ug/kg
2-Nitropropane	EPA 8260	<50	ug/kg
			**



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522		
Client ID: 17-2-BWK	Profile #:			
		ab ID: AA04957	<del> </del>	
Analyte	Method	Result	Units ···	
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<50	ug/kg	
Toluene	EPA 8260	<20	ug/kg	
1,1,2-Trichloroethane	EPA 8260	<10	ug/kg	
. Tetrachloroethene	EPA 8260	<10	ug/kg	
Chlorobenzene	EPA 8260	<10	ug/kg	
Ethylbenzene	EPA 8260	<10	ug/kg	
m,p-Xylene	EPA 8260	<10	ug/kg	
o-Xylene	EPA 8260	<10	ug/kg	
1,3-Dichlorobenzene	EPA 8260	<10	ug/kg	
1,4-Dichlorobenzene	EPA 8260	<10	ug/kg	
1,2-Dichlorobenzene	EPA 8260	<10	ug/kg	
EPA 8260 Soil VOA\Volatiles				
Dichlorodifluoromethane	EPA 8260	<10	ug/kg	
Chloromethane	EPA 8260	<10	ug/kg	
Vinyl chloride	EPA 8260	<10	ug/kg	
Bromomethane	EPA 8260	<10	ug/kg	
Chloroethane	EPA 8260	<10	ug/kg	
Trichlorofluoromethane	EPA 8260	<10	ug/kg	
1,1-DichloroTrifluoroethane	EPA 8260	<50	ug/kg	
1,1-Dichloroethene	EPA 8260	<10	ug/kg	
Ethyl Ether	EPA 8260	<50	ug/kg	
1,1,2-Trichlorotrifluoroethane	EPA 8260	<50	ug/kg	
Acetone	EPA 8260	<50	ug/kg	
Carbon Disulfide	EPA 8260	<10	ug/kg	
2-Methylpentane	EPA 8260	<50	ug/kg	
Methylene Chloride	EPA 8260	<50	ug/kg	
3-Methylpentane	EPA 8260	<50	ug/kg	
Acrylonitrile	EPA 8260	<50	ug/kg	
trans-1,2-Dichloroethene	EPA 8260	<10	ug/kg	
1,1-Dichloroethane	EPA 8260	<10	ug/kg	
Vinyl Acetate	EPA 8260	<10	ug/kg	
Methylcyclopentane	EPA 8260	<10	ug/kg	
Acrolien	EPA 8260	<200	ug/kg	
2,2-Dichloropropane	EPA 8260	<10	ug/kg	



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#### **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

		<u> </u>	
Client ID: 17-2-BWK		Profile #: Lab ID: AA04957	
Analyte	Method	Result	Units
cis-1,2-Dichloroethene	EPA 8260	<10	ug/kg
2-Butanone (MEK)	EPA 8260	<50	ug/kg
Bromochloromethane	EPA 8260	<10	ug/kg
Tetrahydrofuran	EPA 8260	<50	ug/kg
Chloroform	EPA 8260	<10	ug/kg
1,1,1-Trichloroethane	EPA 8260	<10	ug/kg
1,1-Dichloropropene	EPA 8260	<10	ug/kg
Carbon Tetrachloride	EPA 8260	<10	ug/kg
1,2-Dichloroethane	EPA 8260	<10	ug/kg
Benzene	EPA 8260	<10	ug/kg
Trichloroethene	EPA 8260	<20	ug/kg
1,2-Dichloropropane	EPA 8260	<10	ug/kg
Dibromomethane	EPA 8260	<10	ug/kg
Bromodichloromethane	EPA 8260	<10	ug/kg
2-Nitropropane	EPA 8260	<50	ug/kg
2-Chlorethyl vinyl ether	EPA 8260	<10	ug/kg
cis-1,3-Dichloropropene	EPA 8260	<10	ug/kg
1-Methyl-2-Pentanone (MIBK)	EPA 8260	<50	ug/kg
Toluene	EPA 8260	<20	ug/kg
,2,3-Trichloropropane	EPA 8260	<10	ug/kg
Frans-1,3-Dichloropropene	EPA 8260	<10	ug/kg
,1,2-Trichloroethane	EPA 8260	<10	ug/kg
,3-Dichloropropane	EPA 8260	<10	ug/kg
Tetrachloroethene	EPA 8260	<10	ug/kg
-Hexanone	EPA 8260	<50	ug/kg
,2-Dibromoethane	EPA 8260	<10	ug/kg
Dibromochloromethane	EPA 8260	<10	ug/kg
,1,1,2-Tetrachloroethane	EPA 8260	<30	ug/kg
Chlorobenzene	EPA 8260	<10	ug/kg
thylbenzene	EPA 8260	<10	ug/kg
ı,p-Xylene	EPA 8260	<10	ug/kg
-Xylene	EPA 8260	<10	ug/kg
tyrene	EPA 8260	<10	ug/kg
romoform	EPA 8260	<10	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

bis(2-chloroisopropyl)ether

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

<33

ug/kg

Received Date: 06/19/96	Project No: 96W011	Job Number: 06	191522
Client ID: 17-2-BWK		Profile #:	
		Lab ID: AA04957	
Analyte	Method	Result	Units 65%
Isopropylbenzene	EPA 8260	<10	ug/kg
1,1,2,2-Tetrachloroethane	EPA 8260	<30	ug/kg
Bromobenzene	EPA 8260	<10	ug/kg
. n-propylbenzene	EPA 8260	<10	ug/kg
1,3,5-Trimethylbenzene	EPA 8260	<10	ug/kg
2-Chlorotoluene	EPA 8260	<10	ug/kg
4-Chlorotoluene	EPA 8260	<10	ug/kg
tert-Butylbenzene	EPA 8260	<10	ug/kg
1,2,4-Trimethylbenzene	EPA 8260	<10	ug/kg
sec-Butylbenzene	EPA 8260	<10	ug/kg
1,3-Dichlorobenzene	EPA 8260	<10	ug/kg
1,4-Dichlorobenzene	EPA 8260	<10	ug/kg
n-Butylbenzene	EPA 8260	<10	ug/kg
p-Isopropyltoluene	EPA 8260	<10	ug/kg
1,2-Dichlorobenzene	EPA 8260	<10	ug/kg
1,2-Dibromo-3-chloropropane	EPA 8260	<50	ug/kg
1,2,4-Trichlorobenzene	EPA 8260	<10	ug/kg
Hexachlorobutadiene	EPA 8260	<10	ug/kg
Naphthalene	EPA 8260	<50	ug/kg
1,2,3-Trichlorobenzene	EPA 8260	<10	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	100	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene	EPA 8260	98	%
EPA 8270 Solid			
N-Nitrosodimethylamine	EPA 8270	<167	ug/kg
Analine	EPA 8270	<167	ug/kg
bis(2-Chloroethyl)ether	EPA 8270	<33	ug/kg
Phenol	EPA 8270	<33	ug/kg
2-Chlorophenol	EPA 8270	<33	ug/kg
1,3-Dichlorobenzene	EPA 8270	<33	ug/kg
1,4-Dichlorobenzene	EPA 8270	<33	ug/kg
1,2-Dichlorobenzene	EPA 8270	<33	ug/kg
Benzyl alcohol	EPA 8270	<67	ug/kg

**EPA 8270** 



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## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: 17-2-BWK		Profile #: Lab ID: AA04957	
Analyte	Method	Result	Units
2-Methylphenol	EPA 8270	<33	ug/kg
Acetophenone	EPA 8270	<167	ug/kg
Hexachloroethane	EPA 8270	<33	ug/kg
N-Nitroso-di-n-propylamine	EPA 8270	<33	ug/kg
4-Methylphenol	EPA 8270	<33	ug/kg
Nitrobenzene	EPA 8270	<33	ug/kg
Isophorone	EPA 8270	<33	ug/kg
2-Nitrophenol	EPA 8270	<33	ug/kg
2,4-Dimethylphenol	EPA 8270	<33	ug/kg
bis(2-Chloroethoxy)methane	EPA 8270	<33	ug/kg
2,4-Dichlorophenol	EPA 8270	<33	ug/kg
1,2,4-Trichlorobenzene	EPA 8270	<33	ug/kg
Naphthalene	EPA 8270	<33	ug/kg
4-Chloroaniline	EPA 8270	<67	ug/kg
Hexachlorobutadiene	EPA 8270	<33	ug/kg
Benzoic Acid	EPA 8270	<167	ug/kg
4-Chloro-3-methylphenol	EPA 8270	<67	ug/kg
2-Methylnaphthalene	EPA 8270	<33	ug/kg
Hexachlorocyclopentadiene	EPA 8270	<33	ug/kg
2,4,6-Trichlorophenol	EPA 8270	<33	ug/kg
2,4,5-Trichlorophenol	EPA 8270	<33	ug/kg
2-Chloronaphthalene	EPA 8270	<33	ug/kg
2-Nitroaniline	EPA 8270	<67	ug/kg
Acenaphthylene	EPA 8270	<33	ug/kg
Dimethylphthalate	EPA 8270	<33	ug/kg
2,6-Dinitrotoluene	EPA 8270	<33	ug/kg
Acenaphthene	EPA 8270	<33	ug/kg
3-Nitroaniline	EPA 8270	<167	ug/kg
2,4-Dinitrophenol	EPA 8270	<167	ug/kg
Dibenzofuran	EPA 8270	<167	ug/kg
2,4-Dinitrotoluene	EPA 8270	<33	ug/kg
4-Nitrophenol	EPA 8270	<33	ug/kg
Fluorene	EPA 8270	<33	ug/kg
4-Chlorophenyl-phenylether	EPA 8270	<33	ug/kg



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Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	17-2-BWK	Profile #:	
		Lab ID: AA04957	

		Lab ID: AA04957	
Analyte	Method	Result	Units 1800
Diethylphthalate	EPA 8270	<33	ug/kg
4-Nitroaniline	EPA 8270	<167	ug/kg
4,6-Dinitro-2-methylphenol	EPA 8270	<167	ug/kg
n-Nitrosodiphenylamine	EPA 8270	<33	ug/kg
Azobenzene	EPA 8270	<33	ug/kg
4-Bromophenyl-phenylether	EPA 8270	<33	ug/kg
Hexachlorobenzene	EPA 8270	<33	ug/kg
Pentachlorophenol	EPA 8270	<167	ug/kg
Phenanthrene	EPA 8270	<33	ug/kg
Anthracene	EPA 8270	<33	ug/kg
Di-n-butylphthalate	EPA 8270	<33	ug/kg
Fluoranthene	EPA 8270	<33	ug/kg
Benzidine	EPA 8270	<33	ug/kg
Pyrene	EPA 8270	<33	ug/kg
Butylbenzylphthalate	EPA 8270	<33	ug/kg
3,3'-Dichlorobenzidine	EPA 8270	<33	ug/kg
Benzo[a]anthracene	EPA 8270	<67	ug/kg
Chrysene	EPA 8270	<33	ug/kg
bis(2-Ethylhexyl)phthalate	EPA 8270	<167	ug/kg
Di-n-octylphthalate	EPA 8270	<33	ug/kg
Benzo[b]fluoranthene	EPA 8270	<33	ug/kg
Benzo[k]fluoranthene	EPA 8270	<33	ug/kg
Benzo[a]pyrene	EPA 8270	<33	ug/kg
Indeno[1,2,3-cd]pyrene	EPA 8270	<33	ug/kg
Dibenz[a,h]anthracene	EPA 8270	<33	ug/kg
Benzo[g,h,i]perylene	EPA 8270	<33	ug/kg
EPA 8270/625 Surrogate			
2-Fluorophenol	EPA 8270	65	%
Phenol-d5	EPA 8270	54	%
Nitrobenzene-d5	EPA 8270	61	%
2-Fluorobiphenyl	EPA 8270	42	%
2,4,6-Tribromophenol	EPA 8270	50	%
Terphenyl-d14 BENZENE	EPA 8270	68	%
71-43-2 Benzene	EPA 8260	<1	ug/L



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

17-2-BWK

Profile #:

Lab ID: AA04957

Analyte

Method

Result .

Units

TX by Dohrmann

9076

<500

ppm



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# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96 Parativad Data 06/10/06

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: V	0191322
Client ID: 18-1-(1)		Profile #: Lab ID: AA04960	To the contract of the contrac
Analyte	Method	Result	Units -
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.650	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	40.0 g	
WTPH-HCID Soil			•••
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID.	<100	mg/kg
WTPH Diesel Surrogates		•	1.74
Bromobenzene	WTPH-D	110	%
Ortho-terphenyl	WTPH-D	133	%



To: MARC STRICKLER

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# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Profile #: Client ID: 18-2-(1)

Chent 15. 10 2-(1)	Lab ID: AA04961	
Analyte Method	Result	Units
Silver EPA 6010	< 0.0114	mg/L
Arsenic EPA 6010	< 0.114	mg/L
Barium EPA 6010	0.325	mg/L
· Cadmium EPA 6010	< 0.0057	mg/L
Chromium EPA 6010	< 0.0114	mg/L
Mercury EPA 6010	< 0.057	mg/L
Lead EPA 6010	< 0.114	mg/L
Selenium EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) EPA 1311	27.0 g	
WTPH-HCID Soil		
Gasoline WTPH-HCI	<20 <20	mg/kg
Diesel WTPH-HCII	<b>&gt;</b> 50	mg/kg
Motor Oil WTPH-HCII	<100	mg/kg
WTPH Diesel Surrogates	•	
Bromobenzene WTPH-D	103	%
Ortho-terphenyl WTPH-D	128	%



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#### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Units

Client ID: 18-3-(1)		Lab ID: AA04962		
Analyte		Method	Result	
Silver		EPA 6010	< 0.0114	
Arsenic		EPA 6010	< 0.114	

mg/L mg/L mg/L Barium **EPA 6010** 0.489 **EPA 6010** < 0.0057 mg/L Cadmium Chromium **EPA 6010** < 0.0114 mg/L Mercury **EPA 6010** < 0.057 mg/L Lead **EPA 6010** < 0.114 mg/L < 0.342 Selenium **EPA 6010** mg/L 47.0 g TCLP (Extraction Procedure) **EPA 1311** WTPH-HCID Soil <20 mg/kg Gasoline WTPH-HCID Diesel <50 mg/kg WTPH-HCID WTPH-HCID <100 mg/kg Motor Oil WTPH Diesel Surrogates

% Bromobenzene WTPH-D 118 Ortho-terphenyl 144 % WTPH-D



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# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.: P.O. No.:

Pacaissad Data: 06/10/06

Project No. 06W/011

Received Date: 06/19/96	Project No: 96W011	Job Number:	00191322
Client ID: 18-4-(1)		Profile #: Lab ID: AA04963	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.317	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	20.0 g	•
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			• -
Bromobenzene	WTPH-D	113	%
Ortho-terphenyl	WTPH-D	136	%



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Report Date: 07/15/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011 Job Number: 06191522		91522
Client ID: 18-5-(1)	Profile #: Lab ID: AA04964		
Analyte	Method	Result	Units de
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.409	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	23.0 g	
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates	•		
Bromobenzene	WTPH-D	116	%
Ortho-terphenyl	WTPH-D	142	%



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# **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY
Sample Collected: 06/19/96 | Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

P.O. No.:

Work Order No.:

Received Date: 00/19/90	Date: 00/19/90 110ject 10. 90 W011		
Client ID: 18-6-(1)		Profile #: Lab ID: AA04965	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.450	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	23.0 g	
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	127	%
Ortho-terphenyl	WTPH-D	157	%



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# **Analytical Report**

To: MARC STRICKLER

Work Order No.: Report Date: 07/15/96 Generator: UMATILLA ARMY P.O. No.: Project Name: UMATILLA Sample Collected: 06/19/96 Job Number: 06191522 Project No: 96W011 Received Date: 06/19/96

Received Date, our 19790	110,0001110190 W011	1	•
Client ID: 18-7-(1)		Profile #: Lab ID: AA04966	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.451	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	25.0 g	•
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	132	%
Ortho-terphenyl	WTPH-D	145	%



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## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

18-8-(1)

Profile #:

Lab ID: AA04967

<b>Lab ID:</b> AA04967	
Result	Units
<20	mg/kg
<50	mg/kg
<100	mg/kg
	•
116	%
149	%
	<20 <50 <100



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**Analytical Report** 

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Bate. 66/15/56	110300011013011011		
Client ID: 18-9-(1)		Profile #: Lab ID: AA04968	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.497	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	36.0 g	
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates	,		
Bromobenzene	WTPH-D	126	%
Ortho-terphenyl	WTPH-D	148	%



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## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Received Date. 80/15/50		1 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Client ID: 18-10-(1)		Profile #: Lab ID: AA04969	·
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.596	mg/L
· Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	26.0 g	
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	120	%
Ortho-terphenyl	WTPH-D	137	%



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## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

	1	ı	
Client ID: 18-11-(1)		Profile #: Lab ID: AA04970	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.285	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	0.0121	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	22.0 g	
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	127	%
Ortho-terphenyl	WTPH-D	151	%



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Ortho-terphenyl

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

137

%

Joh Number 06191522

Received Date: 06/19/96	Project No: 96W011	Job Number: 06191522	
Client ID: 18-12-(1)		Profile #: Lab ID: AA04971	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.231	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	32.0 g	
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil WTPH Diesel Surrogates	WTPH-HCID	<100	mg/kg
Bromobenzene	WTPH-D	120	%

WTPH-D



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Report Date: 07/15/96

Sample Collected: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011 Job Number: 06191522		191522
Client ID: 18-13-(1)		Profile #: Lab ID: AA04972	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.506	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	21.0 g	
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	117	%
Ortho-terphenyl	WTPH-D	138	%



To: MARC STRICKLER

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#### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110ject 140. 96 WUII	300 Number: 00131322	
Client ID: 18-14-(1)	Profile #: Lab ID: AA04973		
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.010	mg/L
Arsenic	EPA 6010	< 0.100	mg/L
Barium	EPA 6010	0.439	mg/L
Cadmium	EPA 6010	< 0.005	mg/L
Chromium	EPA 6010	< 0.010	mg/L
Mercury	EPA 7470	< 0.0008	mg/L
Lead	EPA 6010	< 0.100	mg/L
Selenium	EPA 6010	< 0.300	mg/L
TCLP (Extraction Procedure)	EPA 1311	40.0 g	
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	129	%
Ortho-terphenyl	WTPH-D	159	%



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Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	ulin Late y hy	Job Number:	06191522
Client ID: UNK-1		Profile Lab II	#: AA04974	
Analyte	Method	s.,,	Result	Units
Silver	EPA 6010		< 0.0114	mg/L
Arsenic	EPA 6010	= 1	< 0.114	mg/L
Barium	EPA 6010		0.833	mg/L
Cadmium	EPA 6010		< 0.0057	mg/L
Chromium	EPA 6010	-	< 0.0114	mg/L
Mercury	EPA 6010		< 0.057	mg/L
Lead	EPA 6010		< 0.114	mg/L
Selenium	EPA 6010		< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311		70.0 g	
Ethyl Acetate	EPA 8015		<250	ug/kg
Methanol	EPA 8015		<250	ug/kg
Isobutyl Alcohol	EPA 8015		<25	ug/kg
N-Butyl Alcohol	EPA 8015		<125	ug/kg
Pyridine	EPA 8015		<25	ug/kg
2-Ethoxyethanol	EPA 8015		<25	ug/kg
Cyclohexanone	EPA 8015		<25	ug/kg
Nitrobenzene	EPA 8015		<25	ug/kg
o-Cresol	EPA 8015		<25	ug/kg
p-Cresol	EPA 8015		<25	ug/kg
m-Cresol 8015 F-Listed Solvents Surrogat	EPA 8015 te		<25	ug/kg
Bromobenzene 3260 F-LISTED SOLVENTS IN	EPA 8015 SOLIDS		87	%
Ethyl Ether	EPA 8260		<81	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260		<81	ug/kg
Acetone	EPA 8260		<81	ug/kg
Carbon Disulfide	EPA 8260		<16	ug/kg
Methylene Chloride	EPA 8260		<81	ug/kg
2-Butanone (MEK)	EPA 8260		<81	ug/kg
,1,1-Trichloroethane	EPA 8260		<16	ug/kg
Carbon Tetrachloride	EPA 8260		<16	ug/kg
Benzene	EPA 8260		<16	ug/kg
Trichloroethene	EPA 8260		<32	ug/kg
2-Nitropropane	EPA 8260		<81	ug/kg
1 1				



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Work Order No.:

P.O. No.:

Ich Number 06101522

Received Date: 06/19/96	Project No: 96W011 Job Number: 06191		:06191522
Client ID: UNK-1	Pr La		
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<81	ug/kg
Toluene	EPA 8260	<32	ug/kg
1,1,2-Trichloroethane	EPA 8260	<16	ug/kg
Tetrachloroethene	EPA 8260	<16	ug/kg
Chlorobenzene	EPA 8260	<16	ug/kg
Ethylbenzene	EPA 8260	<16	ug/kg
m,p-Xylene	EPA 8260	21	ug/kg
o-Xylene	EPA 8260	<16	ug/kg
1,3-Dichlorobenzene	EPA 8260	<16	ug/kg
1,4-Dichlorobenzene	EPA 8260	<16	ug/kg
1,2-Dichlorobenzene	EPA 8260	<16	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	60	%
4-Bromofluorobenzene	EPA 8260	63	%
WTPH-HCID Soil	·		
Gasoline	WTPH-HCID	<200	mg/kg
Diesel	WTPH-HCID	<500	mg/kg
Motor Oil	WTPH-HCID	65000	mg/kg
Polychlorinated Biphenyls	entermity of the company of the state of the	in the state of th	and the section of the section of the section of the section of
Aroclor-1016	EPA 8080	< 0.23	mg/kg
Arcolor-1221	EPA 8080	< 0.23	mg/kg
Aroclor-1232	EPA 8080	< 0.23	mg/kg
Aroclor-1242	EPA 8080	< 0.23	mg/kg
Aroclor-1248	EPA 8080	< 0.23	mg/kg
Aroclor-1254	EPA 8080	< 0.23	mg/kg
Arocior-1260	EPA 8080	< 0.23	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	74	%
OCB	EPA 8080	80	%
WTPH Diesel Surrogates	Hambit 2	100	0/
Bromobenzene	WTPH-D	129	%
Ortho-terphenyl	WTPH-D	136	%
TX by Dohrmann	9076	<500	ppm



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#### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

	, , , , , , , , , , , , , , , , , , ,	<u> </u>	
Client ID: UNK-2		Profile #: Lab ID: AA04975	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	1.11	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	27.0 g	
8015 F-Listed Solvents in Solids			•
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA 8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	110	%
8260 F-LISTED SOLVENTS IN SO			
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	24	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg



BY-PRODUCT RECOVERY GROWESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

e #: D: AA04975  Result  <7 <3 1.8 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
Result <7 <3 1.8 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
<7 <3 1.8 <1 <1 <1 <1 2.1 <1 <1 <1 <1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
<3 1.8 <1 <1 <1 2.1 <1 <1 <1 <1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
1.8 <1 <1 <1 2.1 <1 <1 <1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
<1 <1 <1 2.1 <1 <1 <1	ug/kg ug/kg ug/kg ug/kg ug/kg
<1 <1 2.1 <1 <1 <1	ug/kg ug/kg ug/kg ug/kg
<1 2.1 <1 <1 <1	ug/kg ug/kg ug/kg
2.1 <1 <1 <1	ug/kg ug/kg
<1 <1 <1	ug/kg
<1 <1	
<1	ug/kg
<1	ug/kg
	ug/kg
120	%
94	%
95	%
<20	mg/kg
<50	mg/kg
<100	mg/kg
< 0.19	mg/kg
82	%
<b>79</b>	%
	%
4	%
150	ppm
	< 0.19 < 0.19 82 79



To: MARC STRICKLER

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## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
Client ID: UNK-3		Profile #: Lab ID: AA04976	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.536	mg/L
Cadmium	EPA 6010	0.0355	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	97.0 g	19
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanoi	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	62	%
8260 F-LISTED SOLVENTS IN SO			
Ethyl Ether	EPA 8260	<43	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<43	ug/kg
Acetone	EPA 8260	<43	ug/kg
Carbon Disulfide	EPA 8260	<9	ug/kg
Methylene Chloride	EPA 8260	<43	ug/kg
2-Butanone (MEK)	EPA 8260	<43	ug/kg
1,1,1-Trichloroethane	EPA 8260	<9	ug/kg
Carbon Tetrachloride	EPA 8260	<9	ug/kg
Benzene	EPA 8260	<9	ug/kg
<b>Trichloroethene</b>	EPA 8260	<17	ug/kg
2-Nitropropane	EPA 8260	<43	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96 Project Name: UMATILLA Sample Collected: 06/19/96

Received Date: 06/19/96 Project No: 96W011 Work Order No.:

P.O. No.:

Client ID: UNK-3	Profile #: Lab ID: AA04976		
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<43	ug/kg
Toluene	EPA 8260	<17	ug/kg
1,1,2-Trichloroethane	EPA 8260	<9	ug/kg
Tetrachloroethene	EPA 8260	8.8	ug/kg
Chlorobenzene	EPA 8260	<9	ug/kg
Ethylbenzene	EPA 8260	<9	ug/kg
m,p-Xylene	EPA 8260	<9	ug/kg
o-Xylene	EPA 8260	<9	ug/kg
1,3-Dichlorobenzene	EPA 8260	<9	ug/kg
1,4-Dichlorobenzene	EPA 8260	<9	ug/kg
1,2-Dichlorobenzene	EPA 8260	<9	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	85	%
4-Bromofluorobenzene	EPA 8260	72	%
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.22	mg/kg
Arcolor-1221	EPA 8080	< 0.22	mg/kg
Aroclor-1232	EPA 8080	< 0.22	mg/kg
Aroclor-1242	EPA 8080	< 0.22	mg/kg
Aroclor-1248	EPA 8080	< 0.22	mg/kg
Aroclor-1254	EPA 8080	< 0.22	mg/kg
Aroclor-1260	EPA 8080	< 0.22	mg/kg
EPA 8080 PCB - Surrogates			
rcx	EPA 8080	84	%
DCB	EPA 8080	81	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	113	%
Ortho-terphenyl	WTPH-D	141	<b>%</b>
ΓX by Dohrmann	9076	<500	ppm



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# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Received Date. 00/19/90	110,001110.9011011		
Client ID: UNK-4		Profile #:	
		Lab ID: AA04977	
Analyte	Method	Result	Units -
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.492	mg/L
Cadmium	EPA 6010	0.0401	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	71.0 g	·
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	· <5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	· <5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	15	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate	e		
Bromobenzene	EPA 8015	81	%
8260 F-LISTED SOLVENTS IN	SOLIDS		
Ethyl Ether	EPA 8260	<29	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<29	ug/kg
Acetone	EPA 8260	3600	ug/kg
Carbon Disulfide	EPA 8260	<6	ug/kg
Methylene Chloride	EPA 8260	<29	ug/kg
2-Butanone (MEK)	EPA 8260	<29	ug/kg
1,1,1-Trichloroethane	EPA 8260	<6	ug/kg
Carbon Tetrachloride	EPA 8260	<6	ug/kg
Benzene	EPA 8260	<6	ug/kg
Trichloroethene	EPA 8260	<12	ug/kg
2-Nitropropane	EPA 8260	<29	ug/kg
• •		•	<b>5 5</b>



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Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client III: UNK-4   Profile #: Lab III: AA04977	Received Date: 06/19/96	Project No: 96W011	Job Number: 00	191522
Analyte         Method         Result         Units           4-Methyl-2-Pentanone (MIBK)         EPA 8260         <9         ug/kg           Toluene         EPA 8260         <12         ug/kg           1,1,2-Trichloroethane         EPA 8260         <6         ug/kg           Chlorobenzene         EPA 8260         <6         ug/kg           Chlorobenzene         EPA 8260         <6         ug/kg           Ethylbenzene         EPA 8260         8.3         ug/kg           Ethylbenzene         EPA 8260         12         ug/kg           o-Xylene         EPA 8260         12         ug/kg           o-Xylene         EPA 8260         35         ug/kg           1,3-Dichlorobenzene         EPA 8260         35         ug/kg           1,4-Dichlorobenzene         EPA 8260         34         ug/kg           1,2-Dichlorobenzene         EPA 8260         32         %           EPA 8260/624 Surrogate         1,2-Dichlorobenzene         EPA 8260         52         %           1,2-Dichlorobenzene         EPA 8260         52         %           WTPH-HCID Soil         Soil         52         %           Gasoline         WTPH-HCID         <0	Client ID: UNK-4			
4-Methyl-2-Pentanone (MIBK)	Analysta	Method		Units
Toluene EPA 8260 <12 ug/kg 1,1,2-Trichloroethane EPA 8260 <6 ug/kg 1,1,2-Trichloroethane EPA 8260 <6 ug/kg Tetrachloroethene EPA 8260 <6 ug/kg Chlorobenzene EPA 8260 <6 ug/kg Ethylbenzene EPA 8260 <6 ug/kg m.p-Xylene EPA 8260  8.3 ug/kg m.p-Xylene EPA 8260  12 ug/kg o-Xylene EPA 8260  35 ug/kg 1,3-Dichlorobenzene EPA 8260  35 ug/kg 1,3-Dichlorobenzene EPA 8260  35 ug/kg 1,4-Dichlorobenzene EPA 8260  36 ug/kg 1,2-Dichlorobenzene EPA 8260  36 ug/kg EPA 8260/624 Surrogate 1,2-Dichlorethane-D4  EPA 8260  120 % EPA 8260/624 Surrogate 1,2-Dichlorethane-D4  EPA 8260  52 % EPA 8260 BePA 8260  62 % EPA 8260 BePA 8260  62 % EPA 8260  62 %	•			
Total	•			
Tetrachloroethene				
Chlorobenzene	• •			
Ethylbenzene EPA \$260 8.3 ug/kg m,p-Xylene EPA \$260 12 ug/kg o-Xylene EPA \$260 35 ug/kg l,3-Dichlorobenzene EPA \$260 35 ug/kg l,3-Dichlorobenzene EPA \$260 35 ug/kg l,4-Dichlorobenzene EPA \$260 34 ug/kg l,2-Dichlorobenzene EPA \$260 34 ug/kg l,2-Dichlorobenzene EPA \$260 34 ug/kg l,2-Dichlorobenzene EPA \$260 36 ug/kg EPA \$260/624 Surrogate l,2-Dichlorothane-D4 EPA \$260 52 % 4-Bromofluorobenzene EPA \$2				<del>-</del> -
EPA 8260   12				
Section	•			• •
1,3-Dichlorobenzene EPA 8260 35 ug/kg 1,4-Dichlorobenzene EPA 8260 34 ug/kg 1,2-Dichlorobenzene EPA 8260 46 ug/kg 1,2-Dichlorobenzene EPA 8260 6 ug/kg EPA 8260/624 Surrogate 1,2-Dichlorethane-D4 EPA 8260 120 % Toluene-D8 EPA 8260 52 % 4-Bromofluorobenzene EPA 8260 62 % WTPH-HCID Soil Gasoline WTPH-HCID <00 mg/kg Motor Oil WTPH-HCID 50 mg/kg Motor Oil WTPH-HCID 50 mg/kg Motor-1016 EPA 8080 0 0.19 mg/kg Arcolor-1021 EPA 8080 0 0.19 mg/kg Arcolor-1221 EPA 8080 0 0.19 mg/kg Arcolor-1232 EPA 8080 0 0.19 mg/kg Arcolor-1242 EPA 8080 0 0.19 mg/kg Arcolor-1248 EPA 8080 0 0.19 mg/kg Arcolor-1254 EPA 8080 0 0.19 mg/kg Arcolor-1254 EPA 8080 0 0.19 mg/kg Arcolor-1260 EPA 8080 0 0.19 mg/kg Arcolor-1260 EPA 8080 0 0.19 mg/kg Arcolor-1260 EPA 8080 73 mg/kg EPA 8080 PCB - Surrogates TCX EPA 8080 73 % WTPH-D I51 % WTPH Diesel Surrogates Bromobenzene WTPH-D I51 % Ortho-terphenyl	•			<del>-</del> -
1,4-Dichlorobenzene	_			
1,2-Dichlorobenzene				<b>-</b> -
EPA 8260/624 Surrogate  1,2-Dichlorethane-D4 EPA 8260 120 %  Toluene-D8 EPA 8260 52 %  4-Bromofluorobenzene EPA 8260 62 %  WTPH-HCID Soil  Gasoline WTPH-HCID <20 mg/kg	•			• •
1,2-Dichlorethane-D4       EPA 8260       120       %         Toluene-D8       EPA 8260       52       %         4-Bromofluorobenzene       EPA 8260       62       %         WTPH-HCID Soil         Gasoline       WTPH-HCID       <0		EPA 8260	<b>~</b> 0	ug/kg
Toluene-D8 EPA 8260 52 %  4-Bromofluorobenzene EPA 8260 62 %  WTPH-HCID Soil  Gasoline WTPH-HCID <20 mg/kg Diesel WTPH-HCID <50 mg/kg  Motor Oil WTPH-HCID 440000 mg/kg  Polychlorinated Biphenyls  Aroclor-1016 EPA 8080 <0.19 mg/kg  Arcolor-1221 EPA 8080 <0.19 mg/kg  Aroclor-1232 EPA 8080 <0.19 mg/kg  Aroclor-1242 EPA 8080 <0.19 mg/kg  Aroclor-1242 EPA 8080 <0.19 mg/kg  Aroclor-1248 EPA 8080 <0.19 mg/kg  Aroclor-1254 EPA 8080 <0.19 mg/kg  Aroclor-12560 EPA 8080 <0.19 mg/kg  EPA 8080 <0.19 mg/kg  Aroclor-1260 EPA 8080 <0.19 mg/kg  EPA 8080 PCB - Surrogates  TCX EPA 8080 73 %  DCB EPA 8080 71 %  WTPH Diesel Surrogates  Bromobenzene WTPH-D 151 %  Ortho-terphenyl WTPH-D Interference %	_	EPA 8260	120	%
### A-Bromofluorobenzene	•		52	%
WTPH-HCID Soil         WTPH-HCID         <20         mg/kg           Diesel         WTPH-HCID         <50			62	%
Diesel         WTPH-HCID         <50         mg/kg           Motor Oil         WTPH-HCID         440000         mg/kg           Polychlorinated Biphenyls           Aroclor-1016         EPA 8080         < 0.19		•		
Motor Oil         WTPH-HCID         440000         mg/kg           Polychlorinated Biphenyls         EPA 8080         < 0.19	Gasoline	WTPH-HCID	<20	mg/kg
Polychlorinated Biphenyls           Aroclor-1016         EPA 8080         < 0.19	Diesel	WTPH-HCID		mg/kg
Polychlorinated Biphenyls         EPA 8080         < 0.19         mg/kg           Arcolor-1016         EPA 8080         < 0.19	Motor Oil	WTPH-HCID	440000	mg/kg
Arcolor-1221 EPA 8080 < 0.19 mg/kg Aroclor-1232 EPA 8080 < 0.19 mg/kg Aroclor-1242 EPA 8080 < 0.19 mg/kg Aroclor-1248 EPA 8080 < 0.19 mg/kg Aroclor-1254 EPA 8080 < 0.19 mg/kg Aroclor-1254 EPA 8080 < 0.19 mg/kg Aroclor-1260 EPA 8080 < 0.19 mg/kg EPA 8080 PCB - Surrogates TCX EPA 8080 73 % DCB EPA 8080 71 % WTPH Diesel Surrogates Bromobenzene WTPH-D 151 % Ortho-terphenyl WTPH-D Interference %		and the second s	ন্দ্ৰকা <b>ক্ষ</b> া হয় দিনিব <b>শ</b> িনী	-
Aroclor-1232 EPA 8080 < 0.19 mg/kg Aroclor-1242 EPA 8080 < 0.19 mg/kg Aroclor-1248 EPA 8080 < 0.19 mg/kg Aroclor-1254 EPA 8080 < 0.19 mg/kg Aroclor-12560 EPA 8080 < 0.19 mg/kg EPA 8080 PCB - Surrogates  TCX EPA 8080 73 % DCB EPA 8080 71 % WTPH Diesel Surrogates Bromobenzene WTPH-D 151 % Ortho-terphenyl WTPH-D Interference %	Aroclor-1016	EPA 8080		• •
Aroclor-1242 EPA 8080 < 0.19 mg/kg Aroclor-1248 EPA 8080 < 0.19 mg/kg Aroclor-1254 EPA 8080 < 0.19 mg/kg Aroclor-1254 EPA 8080 < 0.19 mg/kg Aroclor-1260 EPA 8080 < 0.19 mg/kg EPA 8080 PCB - Surrogates  TCX EPA 8080 73 % DCB EPA 8080 71 % WTPH Diesel Surrogates  Bromobenzene WTPH-D 151 % Ortho-terphenyl WTPH-D Interference %	Arcolor-1221	EPA 8080		
Aroclor-1248 EPA 8080 < 0.19 mg/kg Aroclor-1254 EPA 8080 < 0.19 mg/kg Aroclor-1260 EPA 8080 < 0.19 mg/kg EPA 8080 PCB - Surrogates  TCX EPA 8080 73 % DCB EPA 8080 71 % WTPH Diesel Surrogates  Bromobenzene WTPH-D 151 % Ortho-terphenyl WTPH-D Interference %	Aroclor-1232	EPA 8080		<del>-</del> -
Aroclor-1254 EPA 8080 < 0.19 mg/kg Aroclor-1260 EPA 8080 < 0.19 mg/kg  EPA 8080 PCB - Surrogates  TCX EPA 8080 73 %  DCB EPA 8080 71 %  WTPH Diesel Surrogates  Bromobenzene WTPH-D 151 %  Ortho-terphenyl WTPH-D Interference %	Aroclor-1242	EPA 8080		
Aroclor-1260 EPA 8080 < 0.19 mg/kg  EPA 8080 PCB - Surrogates  TCX EPA 8080 73 %  DCB EPA 8080 71 %  WTPH Diesel Surrogates  Bromobenzene WTPH-D 151 %  Ortho-terphenyl WTPH-D Interference %	Aroclor-1248	EPA 8080	< 0.19	=
EPA 8080 PCB - Surrogates  TCX EPA 8080 73 %  DCB EPA 8080 71 %  WTPH Diesel Surrogates  Bromobenzene WTPH-D 151 %  Ortho-terphenyl WTPH-D Interference %	Aroclor-1254	EPA 8080	< 0.19	mg/kg
TCX EPA 8080 73 % DCB EPA 8080 71 % WTPH Diesel Surrogates Bromobenzene WTPH-D 151 % Ortho-terphenyl WTPH-D Interference %	Aroclor-1260	EPA 8080	< 0.19	mg/kg
DCB EPA 8080 71 % WTPH Diesel Surrogates Bromobenzene WTPH-D 151 % Ortho-terphenyl WTPH-D Interference %	EPA 8080 PCB - Surrogates			
WTPH Diesel Surrogates  Bromobenzene WTPH-D 151 %  Ortho-terphenyl WTPH-D Interference %	TCX	EPA 8080		
Bromobenzene WTPH-D 151 % Ortho-terphenyl WTPH-D Interference %	DCB	EPA 8080	71	%
Ortho-terphenyl WTPH-D Interference %	WTPH Diesel Surrogates			
Ottlo-terphenyi Willia	Bromobenzene	WTPH-D		
TX by Dohrmann 9076 <500 ppm	Ortho-terphenyl			
	TX by Dohrmann	9076	<500	ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: UNK-5	Profile #: Lab ID: AA04978		
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.808	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	58.0 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	_ <5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene 8260 F-LISTED SOLVENTS IN S	EPA 8015 OLIDS	54	%
Ethyl Ether	EPA 8260	<10	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<10	ug/kg
Acetone	EPA 8260	3800	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<10	ug/kg
2-Butanone (MEK)	EPA 8260	<10	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	2	ug/kg
Benzene	EPA 8260	<2	ug/kg ug/kg
Trichloroethene	EPA 8260	<4	ug/kg ug/kg
2-Nitropropane	EPA 8260	<10	
2-14ttoptopane	DI A 0200	<b>\10</b>	ug/kg



To: MARC STRICKLER WESTERN REGION

Philip Environmental Laboratory

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Received Date: 06/19/96 Project No: 96W011 Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96 WUII		
Client ID: UNK-5		Profile #:	
Chefit ID. Chik-3	Lab ID: AA04978		
Analyte	Method	Result	Units
<del>-</del>	EPA 8260	<10	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<4	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260 EPA 8260	<2	ug/kg
o-Xylene		< <u>2</u>	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	~	<del>-6</del> 8
EPA 8260/624 Surrogate	TD 4 00/0	110	%
1,2-Dichlorethane-D4	EPA 8260	90	%
Toluene-D8	EPA 8260	81	%
4-Bromofluorobenzene	EPA 8260	01	70
WTPH-HCID Soil		<20	mg/kg
Gasoline	WTPH-HCID	<50 <50	/lea
Diesel	WTPH-HCID	The second secon	mg/kg
Motor Oil	WTPH-HCID	TIOON STATES TO THE STATES OF THE STATES	make
Polychlorinated Biphenyls	TD 4 0000	< 0.20	mg/kg
Aroclor-1016	EPA 8080	< 0.20	mg/kg
Arcolor-1221	EPA 8080	< 0.20	mg/kg
Aroclor-1232	EPA 8080	6.4	mg/kg
Aroclor-1242	EPA 8080	< 0.20	mg/kg
Aroclor-1248	EPA 8080	< 0.20	mg/kg
Aroclor-1254	EPA 8080	< 0.20	mg/kg
Aroclor-1260	EPA 8080	< 0.20	IIIA ve
EPA 8080 PCB - Surrogates		75	%
TCX	EPA 8080	75	
DCB	EPA 8080	86	%
WTPH Diesel Surrogates			0/
Bromobenzene	WTPH-D	117	%
Ortho-terphenyl	WTPH-D	Interference	%
O	9076	<500	ppm



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: UNK-6	Profile #: Lab ID: AA04979		
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.852	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311	50.0 g	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	· ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene 8260 F-LISTED SOLVENTS IN SO	EPA 8015 OLIDS	86	%
Ethyl Ether	EPA 8260	<10	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<10	ug/kg
Acetone	EPA 8260	<10	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<10	ug/kg
2-Butanone (MEK)	EPA 8260	<10	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
2-Nitropropane	EPA 8260	<10	ug/kg



WESTERN REGION To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: UNK-6	Profile #: Lab ID: AA04979		
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<10	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
. Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene	EPA 8260	110	%
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	1200	mg/kg
Polychlorinated Biphenyls			_
Aroclor-1016	EPA 8080	< 0.24	mg/kg
Arcolor-1221	EPA 8080	< 0.24	mg/kg
Aroclor-1232	EPA 8080	< 0.24	mg/kg
Aroclor-1242	EPA 8080	< 0.24	mg/kg
Aroclor-1248	EPA 8080	< 0.24	mg/kg
Aroclor-1254	EPA 8080	< 0.24	mg/kg
Aroclor-1260	EPA 8080	< 0.24	mg/kg
EPA 8080 PCB - Surrogates	FD 4 4000	220	0.4
TCX	EPA 8080	370	%
DCB	EPA 8080	77	%
WTPH Diesel Surrogates	Wrott	100	0/
Bromobenzene	WTPH-D	129	%
Ortho-terphenyl	WTPH-D	161	%
TX by Dohrmann	9076	<500	ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

To:MARC STRICKLER

## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client	ID:	UNK.	-7	

rofile	

T -L TD- 4 404000

	Lab ID: AA04980		
Analyte	Method	Result	Units
8015 F-Listed Solvents Surrogate			,
Bromobenzene	EPA 8015	. 72	%
8260 F-LISTED SOLVENTS LIQUID			
Trichlorofluoromethane	EPA 8260	<25	ug/L
Ethyl Ether	EPA 8260	<125	ug/L
1,1,2-Trichlorotrifluorethane	EPA 8260	<125	ug/L
Acetone	EPA 8260	<125	ug/L
Carbon Disulfide	EPA 8260	<25	ug/L
Methylene Chloride	EPA 8260	<125	ug/L
2-Butanone (MEK)	EPA 8260	<125	ug/L
1,1,1-Trichloroethane	EPA 8260	<25	ug/L
Carbon Tetrachloride	EPA 8260	<25	ug/L
Benzene	EPA 8260	<25	ug/L
Trichloroethene	EPA 8260	<50	ug/L
2-Nitropropane	EPA 8260	<125	ug/L
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<125	ug/L
Toluene	EPA 8260	<50	ug/L
1,1,2-Trichloroethane	EPA 8260	<25	ug/L
Tetrachloroethene	EPA 8260	<25	ug/L
Chlorobenzene	EPA 8260	<25	ug/L
Ethylbenzene	EPA 8260	<25	ug/L
m,p-Xylene	EPA 8260	<25	ug/L
o-Xylene	EPA 8260	<25	ug/L
1,2-Dichlorobenzene	EPA 8260	<25	ug/L
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene	EPA 8260	1 <b>10</b>	%
WTPH-HCID Water			
Gasoline	WTPH-HCID	<20	mg/L
Diesel	WTPH-HCID	<50	mg/L
Motor Oil	WTPH-HCID	2300	mg/L
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	85	%

Client ID: UNK-7

Profile #: Lab ID: AA04980

Analyte	Method	Result	Units
DCB	EPA 8080	83	·· ^%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	117	<b>%</b> .
Ortho-terphenyl	WTPH-D	138	%
TX by Dohrmann	9076	<500	ppm

Data Reviewed By:

Data Reported By:



Philip Environmental Laboratory 955 Powell Avenue S.W.

Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

1000170d Dato: 00/15/50	1 3	I	
Client ID: UNK-8	<del></del> -	Profile #:	
		Lab ID: AA04981	
Analyte	Method	Result	Units - 2012
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.440	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	61.0 g	-
8015 F-Listed Solvents in Solids		•	
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA 8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogat	e		
Bromobenzene	EPA 8015	75	%
8260 F-LISTED SOLVENTS IN	SOLIDS		
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: UNK-8		Profile #:	
		Lab ID: AA04981	•
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene	EPA 8260	110	%
WTPH-HCID Soil	•		•
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Arocior-1016	EPA 8080	< 0.21	mg/kg
Arcolor-1221	EPA 8080	< 0.21	mg/kg
Aroclor-1232	EPA 8080	< 0.21	mg/kg
Aroclor-1242	EPA 8080	< 0.21	mg/kg
Aroclor-1248	EPA 8080	< 0.21	mg/kg
Aroclor-1254	EPA 8080	< 0.21	mg/kg
Aroclor-1260	EPA 8080	< 0.21	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	80	%
DCB	EPA 8080	78	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	131	%
Ortho-terphenyl	WTPH-D	148	%
TX by Dohrmann	9076	<500	ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: UNK-9	-	Profile #:	
	Lab ID: AA04982		
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.269	mg/L
· Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	71.0 g	
8015 F-Listed Solvents in Solids		,	
Ethyl Acetate	EPA 8015	<250	ug/kg
Methanol	EPA 8015	<250	ug/kg
Isobutyl Alcohol	EPA 8015	<25	ug/kg
N-Butyl Alcohol	EPA 8015	<125	ug/kg
Pyridine	EPA 8015	<25	ug/kg
2-Ethoxyethanol	EPA 8015	<25	ug/kg
Cyclohexanone	EPA 8015	<25	ug/kg
Nitrobenzene	EPA 8015	<25	ug/kg
o-Cresol	EPA 8015	<25	ug/kg
p-Cresol	EPA 8015	<25	ug/kg
m-Cresol	EPA 8015	<25	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	79	%
8260 F-LISTED SOLVENTS IN SO			
Ethyl Ether	EPA 8260	<48	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<48	ug/kg
Acetone	EPA 8260	460	ug/kg
Carbon Disulfide	EPA 8260	<10	ug/kg
Methylene Chloride	EPA 8260	<48	ug/kg
2-Butanone (MEK)	EPA 8260	<48	ug/kg
1,1,1-Trichloroethane	EPA 8260	<10	ug/kg
Carbon Tetrachloride	EPA 8260	<10	ug/kg
Benzene	EPA 8260	<10	ug/kg
Trichloroethene	EPA 8260	<19	ug/kg
2-Nitropropane	EPA 8260	<48	ug/kg



Work Order No.:

Job Number: 06191522

P.O. No.:

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

#### **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY Sample Collected: 06/19/96 | Project Name: UMATILLA

Received Date: 06/19/96 Project No: 96W011

Profile #: Client ID: UNK-9 Lab ID: AA04982 Analyte Method Result Units <48 4-Methyl-2-Pentanone (MIBK) **EPA 8260** ug/kg Toluene **EPA 8260** <19 ug/kg 1.1.2-Trichloroethane **EPA 8260** <10 ug/kg · Tetrachloroethene **EPA 8260** <10 ug/kg Chlorobenzene **EPA 8260** <10 ug/kg Ethylbenzene **EPA 8260** 22 ug/kg 42 m,p-Xylene **EPA 8260** ug/kg o-Xylene **EPA 8260** 16 ug/kg 1,3-Dichlorobenzene **EPA 8260** <10 ug/kg 1,4-Dichlorobenzene **EPA 8260** <10 ug/kg 1,2-Dichlorobenzene <10 **EPA 8260** ug/kg EPA 8260/624 Surrogate 1,2-Dichlorethane-D4 % **EPA 8260** 110 Toluene-D8 **EPA 8260** % 60 4-Bromofluorobenzene **EPA 8260** 54 % WTPH-HCID Soil Gasoline <100 WTPH-HCID mg/kg Diesel WTPH-HCID <250 mg/kg Motor Oil <500 mg/kg WTPH-HCID Polychlorinated Biphenyls Aroclor-1016 **EPA 8080** < 0.19 mg/kg Arcolor-1221 **EPA 8080** < 0.19 mg/kg Aroclor-1232 **EPA 8080** < 0.19 mg/kg Aroclor-1242 **EPA 8080** < 0.19 mg/kg Aroclor-1248 **EPA 8080** < 0.19 mg/kg Aroclor-1254 **EPA 8080** < 0.19 mg/kg Aroclor-1260 < 0.19 **EPA 8080** mg/kg EPA 8080 PCB - Surrogates **TCX EPA 8080** 86 % **DCB EPA 8080** 81 % WTPH Diesel Surrogates Bromobenzene WTPH-D % 135 % Ortho-terphenyl WTPH-D 166 TX by Dohrmann 9076 2,527.2 ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

#### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.: Job Number: 06191522

Received Date: 06/19/96 Profile #: Client ID: **UNK-10** Lab ID: AA04983 **Analyte** Method Units Result Silver **EPA 6010** < 0.0114 mg/L Arsenic **EPA 6010** < 0.114mg/L **Barium EPA 6010** 0.637 mg/L Cadmium EPA 6010 < 0.0057 mg/L Chromium **EPA 6010** < 0.0114 mg/L Mercury EPA 6010 < 0.057 mg/L Lead **EPA 6010** < 0.114 mg/L Selenium **EPA 6010** < 0.342 mg/L TCLP (Extraction Procedure) EPA 1311 52.0 g 8015 F-Listed Solvents in Solids Ethyl Acetate EPA 8015 <50 ug/kg Methanol EPA 8015 <50 ug/kg Isobutyl Alcohol EPA 8015 <5 ug/kg N-Butyl Alcohol EPA 8015 <25 ug/kg Pyridine EPA 8015 <5 ug/kg 2-Ethoxyethanol **EPA 8015** <5 ug/kg Cyclohexanone EPA 8015 <5 ug/kg Nitrobenzene **EPA 8015** <5 ug/kg o-Cresol <5 **EPA 8015** ug/kg p-Cresol **EPA 8015** <5 ug/kg m-Cresol **EPA 8015** <5 ug/kg 8015 F-Listed Solvents Surrogate Bromobenzene 78 **EPA 8015** % 8260 F-LISTED SOLVENTS IN SOLIDS Ethyl Ether **EPA 8260** <7 ug/kg 1,1,2-Trichlorotrifluorethane **EPA 8260** <7 ug/kg Acetone **EPA 8260** 90 ug/kg Carbon Disulfide **EPA 8260** <1 ug/kg Methylene Chloride **EPA 8260** <7 ug/kg 2-Butanone (MEK) **EPA 8260** <7 ug/kg 1,1,1-Trichloroethane **EPA 8260** <1 ug/kg Carbon Tetrachloride EPA 8260 <1 ug/kg Benzene **EPA 8260** <1 ug/kg Trichloroethene **EPA 8260** <3 ug/kg 2-Nitropropane **EPA 8260** <7 ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: UNK-10	Profile #: Lab ID: AA04983		
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	⋖	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			• •
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	98	%
4-Bromofluorobenzene	EPA 8260	100	%
WTPH-HCID Soil	•		
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	. mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.21	mg/kg
Arcolor-1221	EPA 8080	< 0.21	mg/kg
Aroclor-1232	EPA 8080	< 0.21	mg/kg
Aroclor-1242	EPA 8080	< 0.21	mg/kg
Aroclor-1248	EPA 8080	< 0.21	mg/kg
Aroclor-1254	EPA 8080	< 0.21	mg/kg
Arocior-1260	EPA 8080	< 0.21	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	85	%
DCB	EPA 8080	82	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	128	%
Ortho-terphenyl	WTPH-D	158	%
TX by Dohrmann	9076	<500	ppm



Work Order No.:

Job Number: 06191522

P.O. No.:

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#### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96 Project Name: UMATILLA

Sample Collected: 06/19/96 Received Date: 06/19/96 Project No: 96W011

Profile #:

Client ID: **UNK-11** Lab ID: AA04984 Units .... Analyte Method Result EPA 6010 < 0.0114 mg/L Silver mg/L Arsenic EPA 6010 < 0.114 **EPA 6010** 0.238 mg/L Barium < 0.0057 mg/L Cadmium **EPA 6010** Chromium **EPA 6010** < 0.0114 mg/L **EPA 6010** < 0.057mg/L Mercury mg/L Lead **EPA 6010** < 0.114 < 0.342mg/L Selenium EPA 6010 TCLP (Extraction Procedure) **EPA 1311** 50.0 g 8015 F-Listed Solvents in Solids **EPA 8015** <50 ug/kg Ethyl Acetate <50 ug/kg Methanol **EPA 8015 EPA 8015** <5 ug/kg Isobutyl Alcohol N-Butyl Alcohol EPA 8015 <25 ug/kg <5 **Pyridine EPA 8015** ug/kg <5 2-Ethoxyethanol EPA 8015 ug/kg Cyclohexanone **EPA 8015** <5 ug/kg Nitrobenzene 7.1 ug/kg **EPA 8015** o-Cresol EPA 8015 <5 ug/kg <5 p-Cresol **EPA 8015** ug/kg <5 ug/kg m-Cresol EPA 8015 8015 F-Listed Solvents Surrogate % **EPA 8015** 68 Bromobenzene 8260 F-LISTED SOLVENTS IN SOLIDS Ethyl Ether **EPA 8260** <2500 ug/kg ug/kg 1,1,2-Trichlorotrifluorethane **EPA 8260** <2500 <2500 ug/kg Acetone EPA 8260 Carbon Disulfide **EPA 8260** 1900 ug/kg <2500 ug/kg Methylene Chloride **EPA 8260** 2-Butanone (MEK) **EPA 8260** <2500 ug/kg <500 ug/kg 1,1,1-Trichloroethane EPA 8260 Carbon Tetrachloride **EPA 8260** <500 ug/kg Benzene EPA 8260 <500 ug/kg <1000 Trichloroethene **EPA 8260** ug/kg 2-Nitropropane **EPA 8260** <2500 ug/kg



To: MARC STRICKLER

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#### **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Nulliber.	00191322
Client ID: UNK-11		Profile #:	
		Lab ID: AA04984	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<2500	ug/kg
Toluene	EPA 8260	<1000	ug/kg
1,1,2-Trichloroethane	EPA 8260	<500	ug/kg
Tetrachloroethene	EPA 8260	<500	ug/kg
Chlorobenzene	EPA 8260	<500	ug/kg
Ethylbenzene	EPA 8260	<500	ug/kg
m,p-Xylene	EPA 8260	<500	ug/kg
o-Xylene	EPA 8260	<500	ug/kg
1,3-Dichlorobenzene	EPA 8260	<500	ug/kg
1,4-Dichlorobenzene	EPA 8260	<500	ug/kg
1,2-Dichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<500	ug/kg
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene WTPH-HCID Soil	EPA 8260	100	%
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	4600_	mg/kg
Motor Oil	WTPH-HCID	32000	mg/kg
Polychlorinated Biphenyls	,		A CONTRACTOR OF THE PROPERTY.
Aroclor-1016	EPA 8080	< 0.23	mg/kg
Arcolor-1221	EPA 8080	< 0.23	mg/kg
Aroclor-1232	EPA 8080	< 0.23	mg/kg
Arocior-1242	EPA 8080	< 0.23	mg/kg
Aroclor-1248	EPA 8080	< 0.23	mg/kg
Aroclor-1254	EPA 8080	< 0.23	mg/kg
Aroclor-1260	EPA 8080	< 0.23	mg/kg
EPA 8080 PCB - Surrogates			
CCX	EPA 8080	71	%
OCB	EPA 8080	71	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	123	%
Ortho-terphenyl	WTPH-D	Interference	%
TX by Dohrmann	9076	9,203.1	ppm



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# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	00191322
Client ID: UNK-12		Profile #:	
		Lab ID: AA04985	
Analyte	1,10,110,110	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.244	mg/L
Cadmium	EPA 6010	0.0274	mg/L
Chromium	EPA 6010	0.0131	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solid	EPA 1311 s	96.0 g	
Ethyl Acetate	EPA 8015	<100	ug/kg
Methanol	EPA 8015	<100	ug/kg
Isobutyl Alcohol	EPA 8015	<10	ug/kg
N-Butyl Alcohol	EPA 8015	<50	ug/kg
Pyridine	EPA 8015	<10	ug/kg
2-Ethoxyethanol	EPA 8015	<10	ug/kg
Cyclohexanone	EPA 8015	<10	ug/kg
Nitrobenzene	EPA 8015	<10	ug/kg
o-Cresol	EPA 8015	<10	ug/kg
p-Cresol	EPA 8015	18	ug/kg
m-Cresol	EPA 8015	11	ug/kg
8015 F-Listed Solvents Surroga	ite		
Bromobenzene 8260 F-LISTED SOLVENTS IT	EPA 8015 N SOLIDS	83	%
Ethyl Ether	EPA 8260	<26	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<26	ug/kg
Acetone	EPA 8260	<26	ug/kg
Carbon Disulfide	EPA 8260	64	ug/kg
Methylene Chloride	EPA 8260	<26	ug/kg
2-Butanone (MEK)	EPA 8260	<26	ug/kg
1,1,1-Trichloroethane	EPA 8260	<5	ug/kg
Carbon Tetrachloride	EPA 8260	<5	ug/kg
Benzene	EPA 8260	<5	ug/kg
Trichloroethene	EPA 8260	<10	ug/kg
2-Nitropropane	EPA 8260	<26	ug/kg



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Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: UNK-12		Profile #: Lab ID: AA04985	
Analyte	Method Result Units		
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<b>Aesun</b> <b>&lt;</b> 26	ug/kg
Toluene	EPA 8260	<10	
1,1,2-Trichloroethane	EPA 8260	<5	ug/kg
Tetrachloroethene	EPA 8260	<5	ug/kg
Chlorobenzene	EPA 8260	<5	ug/kg
Ethylbenzene		<> <5	ug/kg
·	EPA 8260	<> <5	ug/kg
m,p-Xylene	EPA 8260		ug/kg
o-Xylene	EPA 8260	<5 -5	ug/kg
1,3-Dichlorobenzene	EPA 8260	<5 -f	ug/kg
1,4-Dichlorobenzene	EPA 8260	<5	ug/kg
1,2-Dichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<5	ug/kg
1,2-Dichlorethane-D4	EPA 8260	95	%
Toluene-D8	EPA 8260	98	%
4-Bromofluorobenzene	EPA 8260	82	%
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.22	mg/kg
Arcolor-1221	EPA 8080	< 0.22	mg/kg
Aroclor-1232	EPA 8080	< 0.22	mg/kg
Aroclor-1242	EPA 8080	< 0.22	mg/kg
Aroclor-1248	EPA 8080	< 0.22	mg/kg
Aroclor-1254	EPA 8080	< 0.22	mg/kg
Aroclor-1260	EPA 8080	< 0.22	mg/kg
EPA 8080 PCB - Surrogates			
rcx	EPA 8080	84	%
OCB	EPA 8080	79	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	122	%
Ortho-terphenyl	WTPH-D	Interference	%
X by Dohrmann	9076	1,140.7	ppm



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# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	00191322
Client ID: UNK-13	Profile #: Lab ID: AA04986		
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.519	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311	100 g	_
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA 8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
3015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	78	%
8260 F-LISTED SOLVENTS IN S			
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
2-Butanone (MEK)	EPA 8260	<5	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Received Date: 06/19/96 Project No: 96W011 Work Order No.:

P.O. No.:

Received Date: 00/13/20	11030011019011011		
Client ID: UNK-13	<u> </u>	Profile #:	······································
	VI	Lab ID: AA04986	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<5	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
· Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate	•		
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene	EPA 8260	100	%
WTPH-HCID Soil	•		
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls	•		
Aroclor-1016	EPA 8080	< 0.21	mg/kg
Arcolor-1221	EPA 8080	< 0.21	mg/kg
Aroclor-1232	EPA 8080	< 0.21	mg/kg
Aroclor-1242	EPA 8080	< 0.21	mg/kg
Aroclor-1248	EPA 8080	< 0.21	mg/kg
Aroclor-1254	EPA 8080	< 0.21	mg/kg
Aroclor-1260	EPA 8080	< 0.21	mg/kg
EPA 8080 PCB - Surrogates			• 1
TCX	EPA 8080	80	%
DCB	EPA 8080	79	%
WTPH Diesel Surrogates	TA MODELL D	100	0.4
Bromobenzene	WTPH-D	122	%
Ortho-terphenyl	WTPH-D	142	%
TX by Dohrmann	9076	<500	ppm



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# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110Joot 110. 90 W 011		
Client ID: UNK-14		Profile #:	
		Lab ID: AA04987	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.747	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g	
8015 F-Listed Solvents in Solids	e mara fili.		
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA 8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogate	•		
Bromobenzene	EPA 8015	80	%
8260 F-LISTED SOLVENTS IN S	OLIDS		
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	38	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
2-Butanone (MEK)	EPA 8260	<5	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110jcct110.90 W 0 [1	100714	
Client ID: UNK-14		Profile #: Lab ID: AA04987	
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<5	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<1	ug/kg
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene WTPH-HCID Soil	EPA 8260	100	%
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.24	mg/kg
Arcolor-1221	EPA 8080	< 0.24	mg/kg
Aroclor-1232	EPA 8080	< 0.24	mg/kg
Aroclor-1242	EPA 8080	< 0.24	mg/kg
Aroclor-1248	EPA 8080	< 0.24	mg/kg
Aroclor-1254	EPA 8080	< 0.24	mg/kg
Aroclor-1260 EPA 8080 PCB - Surrogates	EPA 8080	< 0.24	mg/kg
TCX	EPA 8080	85	%
DCB	EPA 8080	81	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	149	%
Ortho-terphenyl	WTPH-D	184	%
TX by Dohrmann	9076	<500	ppm



WESTERN REGION To: MARC STRICKLER

Work Order No.:

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

2-Nitropropane

#### **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96 Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Project Name: UMATILLA P.O. No.: Job Number: 06191522

Profile #: Client ID: UNK-15

Client ID: UNK-15		rrome #:	
	· · · · · · · · · · · · · · · · · · ·	Lab ID: AA04988	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.359	mg/L
. Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	100 g .	
8015 F-Listed Solvents in Solids	•		
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA-8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	80	%
8260 F-LISTED SOLVENTS IN S			
Ethyl Ether	EPA 8260	<11	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<11	ug/kg
Acetone	EPA 8260	<11	ug/kg
Carbon Disulfide	EPA 8260	<2	ug/kg
Methylene Chloride	EPA 8260	<11	ug/kg
2-Butanone (MEK)	EPA 8260	<11	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg

**EPA 8260** 

ug/kg

<11



Philip Environmental Laboratory

955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Numi	per: 06191522
Client ID: UNK-15	### (m	Profile #:	
	A REPORT OF	Lab ID: AA0498	8
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<11	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	< 2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260/624 Surrogate	**************************************		0 0
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene	EPA 8260	100	%
WTPH-HCID Soil	* * *		
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.20	mg/kg
Arcolor-1221	EPA 8080	< 0.20	mg/kg
Aroclor-1232	EPA 8080	< 0.20	mg/kg
Aroclor-1242	EPA 8080	< 0.20	mg/kg
Aroclor-1248	EPA 8080	< 0.20	mg/kg
Aroclor-1254	EPA 8080	< 0.20	mg/kg
Aroclor-1260	EPA 8080	< 0.20	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	80	%
DCB	EPA 8080	79	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	122	%
Ortho-terphenyl	WTPH-D	154	%
TX by Dohrmann	9076	<500	ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522
Client ID: UNK-16		file #: D: AA04989	
Analyte	Method	Result	Units
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate	•		
Bromobenzene	EPA 8015	61	%
8260 F-LISTED SOLVENTS IN S	SOLIDS		
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
<b>Frichloroethene</b>	EPA 8260	⋖	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
1-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene .	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
n,p-Xylene	EPA 8260	<1	ug/kg
-Xylene	EPA 8260	<1	ug/kg
<del>-</del>			J 0



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Project No. 96 WULL	Job Humber.	00171322
Client ID: UNK-16		Profile #:	······································
	I	ab ID: AA04989	,
Analyte	Method	Result	Units
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	96	%
Toluene-D8	EPA 8260	96	%
4-Bromofluorobenzene	EPA 8260	99	%
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.20	mg/kg
Arcolor-1221	EPA 8080	< 0.20	mg/kg
Aroclor-1232	EPA 8080	< 0.20	mg/kg
Aroclor-1242	EPA 8080	< 0.20	mg/kg
Aroclor-1248	EPA 8080	< 0.20	mg/kg
Aroclor-1254	EPA 8080	< 0.20	mg/kg
Aroclor-1260	EPA 8080	< 0.20	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	86	%
DCB	EPA 8080	82	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	87.2	%
Ortho-terphenyl	WTPH-D	89.7	%
TX by Dohrmann	9076	<500	ppm



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Sample Collected: 06/19/96 Received Date: 06/19/96

#### **Analytical Report**

Report Date: 07/15/96 Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID: UNK-17		Profile #:	<del></del>
Older 17.		Lab ID: AA04990	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	0.644	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure)	EPA 1311	50.0 g	
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA-8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogate	•		
Bromobenzene	EPA 8015	83	%
3260 F-LISTED SOLVENTS IN S	OLIDS		
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
2-Butanone (MEK)	EPA 8260	<5	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
<b>Frichloroethene</b>	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110ject 10.96 W 011	1 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Client ID: UNK-17		Profile #: Lab ID: AA04990	<del></del>
A			
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<5	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate	:.		
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	99	%
4-Bromofluorobenzene	EPA 8260	100	%
WTPH-HCID Soil	• • • • • • • • • • • • • • • • • • • •		
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.23	mg/kg
Arcolor-1221	EPA 8080	< 0.23	mg/kg
Aroclor-1232	EPA 8080	< 0.23	mg/kg
Aroclor-1242	EPA 8080	< 0.23	mg/kg
Aroclor-1248	EPA 8080	< 0.23	mg/kg
Aroclor-1254	EPA 8080	< 0.23	mg/kg
Aroclor-1260	EPA 8080	< 0.23	mg/kg
EPA 8080 PCB - Surrogates	A		
rcx	EPA 8080	84	%
DCB	EPA 8080	78	%
WTPH Diesel Surrogates		•	
Bromobenzene	WTPH-D	135	%
Ortho-terphenyl	WTPH-D	183	%
TX by Dohrmann	9076	<500	ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

## **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Project No. 96 WOTT	300 114411301.	i ati,
Client ID: UNK-18		Profile #: Lab ID: AA04991	
Analyte	Method	Result	Units 🗯
8015 F-Listed Solvents in Solids			•
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA 8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogate	•		
Bromobenzene	EPA 8015	98	%
8260 F-LISTED SOLVENTS IN			
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
2-Butanone (MEK)	EPA 8260	<5	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<5	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number:	06191522	<u>به</u> خ
Client ID: UNK-18	UNK-18 Profile #: Lab ID: AA04991			
Analyte	Method	Result	Units	Ag* .
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg	
1,2-Dichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<1	ug/kg	
1,2-Dichlorethane-D4	EPA 8260	120	%	
Toluene-D8	EPA 8260	99	%	
4-Bromofluorobenzene WTPH-HCID Soil	EPA 8260	110	<b>%</b>	
Gasoline	WTPH-HCID	<20	mg/kg	
Diesel	WTPH-HCID	<50	mg/kg	٠,
Motor Oil	WTPH-HCID	<100	mg/kg	
Polychlorinated Biphenyls				
Aroclor-1016	EPA 8080	< 0.21	mg/kg	
Arcolor-1221	EPA 8080	< 0.21	mg/kg	
Aroclor-1232	EPA 8080	< 0.21	mg/kg	
Aroclor-1242	EPA 8080	< 0.21	mg/kg	
Aroclor-1248	EPA 8080	< 0.21	mg/kg	
Aroclor-1254	EPA 8080	< 0.21	mg/kg	
Aroclor-1260	EPA 8080	< 0.21	mg/kg	
EPA 8080 PCB - Surrogates				
TCX	EPA 8080	85	%	
DCB WTPH Diesel Surrogates	EPA 8080	80	%	
Bromobenzene	WTPH-D	119	%	
Ortho-terphenyl	WTPH-D	155	%	
TX by Dohrmann	9076	<500	ppm	



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## **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

**UNK-19** 

Profile #:

Lab ID: AA04992

Analyte	Method	Result	Units
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.21	mg/kg
Arcolor-1221	EPA 8080	< 0.21	mg/kg
. Aroclor-1232	EPA 8080	< 0.21	mg/kg
Aroclor-1242	EPA 8080	< 0.21	mg/kg
Aroclor-1248	EPA 8080	< 0.21	mg/kg
Aroclor-1254	EPA 8080	< 0.21	mg/kg
Aroclor-1260	EPA 8080	< 0.21	mg/kg

Data Reviewed By:

Data Reported By

\*\*



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Sample Collected: 06/19/96

Received Date: 06/19/96

## **Analytical Report**

Report Date: 07/15/96 | Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Client ID:	: UNK-20	Profile #:
		Lab ID: AA04993

•		DAU 10. AA04333	
Analyte	Method	Result	Units
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
Isobutyl Alcohol	EPA 8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	38	%
8260 F-LISTED SOLVENTS IN SO			
Ethyl Ether	EPA 8260	<4	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<4	ug/kg
Acetone	EPA 8260	· <4	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<4	ug/kg
2-Butanone (MEK)	EPA 8260	<4	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<4	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<4	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Project No: 96W011 Received Date: 06/19/96

Work Order No.:

P.O. No.:

Received Date: 00/19/90	110Jeet 140. 96 W 011	1		
Client ID: UNK-20	]	Profile #:		
	1	Lab ID: AA04993		
Analyte	Method	Result	Units	
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg	
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg	
EPA 8260/624 Surrogate				
1,2-Dichlorethane-D4	EPA 8260	120	%	
Toluene-D8	EPA 8260	98	%	
4-Bromofluorobenzene	EPA 8260	110	%	
WTPH-HCID Soil				
Gasoline	WTPH-HCID	<20	mg/kg	
Diesel	WTPH-HCID	<50	mg/kg	
Motor Oil	WTPH-HCID	<100	mg/kg	
Polychlorinated Biphenyls				
Aroclor-1016	EPA 8080	< 0.21	mg/kg	
Arcolor-1221	EPA 8080	< 0.21	mg/kg	
Aroclor-1232	EPA 8080	< 0.21	mg/kg	
Aroclor-1242	EPA 8080	< 0.21	mg/kg	
Aroclor-1248	EPA 8080	< 0.21	mg/kg	
Arocior-1254	EPA 8080	< 0.21	mg/kg	
Aroclor-1260	EPA 8080	< 0.21	mg/kg	
EPA 8080 PCB - Surrogates				
TCX	EPA 8080	79	%	
DCB	EPA 8080	79	%	
WTPH Diesel Surrogates				
Bromobenzene	WTPH-D	109	%	
Ortho-terphenyl	WTPH-D	127	%	
TX by Dohrmann	9076	<500	ppm	



BY-PRODUCT RECOVERY GRO WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96 Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Froject No. 96 WOLL	Joo Humber.	00171322
Client ID: UNK-21		Profile #: Lab ID: AA04994	
Analyte	Method	Result	Units
Silver	EPA 6010	< 0.0114	mg/L
Arsenic	EPA 6010	< 0.114	mg/L
Barium	EPA 6010	7.50	mg/L
Cadmium	EPA 6010	< 0.0057	mg/L
Chromium	EPA 6010	< 0.0114	mg/L
Mercury	EPA 6010	< 0.057	mg/L
Lead	EPA 6010	< 0.114	mg/L
Selenium	EPA 6010	< 0.342	mg/L
TCLP (Extraction Procedure) 8015 F-Listed Solvents in Solids	EPA 1311	50.0 g	
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	69	%
8260 F-LISTED SOLVENTS IN SC			
Ethyl Ether	EPA 8260	<9	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<9	ug/kg
Acetone	EPA 8260	<9	ug/kg
Carbon Disulfide	EPA 8260	2.5	ug/kg
Methylene Chloride	EPA 8260	<9	ug/kg
2-Butanone (MEK)	EPA 8260	<9	ug/kg
1,1,1-Trichloroethane	EPA 8260	<2	ug/kg
Carbon Tetrachloride	EPA 8260	<2	ug/kg
Benzene	EPA 8260	<2	ug/kg
Trichloroethene	EPA 8260	<4	ug/kg
2-Nitropropane	EPA 8260	<9	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Sample Collected: 00/19/90	P : 131 a street	Job Number:	06101522
Received Date: 06/19/96	Project No: 96W011	Job Number:	00191322
Client ID: UNK-21		file #:	
	Lab	<b>ID:</b> AA04994	•
Analyte	Method	Result	Units
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<9	ug/kg
Toluene	EPA 8260	<4	ug/kg
1,1,2-Trichloroethane	EPA 8260	<2	ug/kg
Tetrachloroethene	EPA 8260	<2	ug/kg
Chlorobenzene	EPA 8260	<2	ug/kg
Ethylbenzene	EPA 8260	<2	ug/kg
m,p-Xylene	EPA 8260	<2	ug/kg
o-Xylene	EPA 8260	<2	ug/kg
1,3-Dichlorobenzene	EPA 8260	<2	ug/kg
1,4-Dichlorobenzene	EPA 8260	<2	ug/kg
1,2-Dichlorobenzene	EPA 8260	<2	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	83	%
4-Bromofluorobenzene	EPA 8260	85	%
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg _
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.24	mg/kg
Arcolor-1221	EPA 8080	< 0.24	mg/kg
Aroclor-1232	EPA 8080	< 0.24	mg/kg
Aroclor-1242	EPA 8080	< 0.24	mg/kg
Aroclor-1248	EPA 8080	< 0.24	mg/kg
Aroclor-1254	EPA 8080	< 0.24	mg/kg
Aroclor-1260	EPA 8080	< 0.24	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	85	%
DCB	EPA 8080	80	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	112	%
Ortho-terphenyl	WTPH-D	135	%
TX by Dohrmann	9076	<500	ppm



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Generator: UMATILLA ARMY Report Date: 07/15/96

Project Name: UMATILLA Sample Collected: 06/19/96

Received Date: 06/19/96 Project No: 96W011 Work Order No.:

P.O. No.:

Client ID:	UNK-22	Profile #:	
		Lab ID: AA04995	

		Lab ID: AA04995	
Analyte	Method	Result	Units
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
. Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	58	%
8260 F-LISTED SOLVENTS IN S	OLIDS	*	. •
Ethyl Ether	EPA 8260	<5	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<5	ug/kg
Acetone	EPA 8260	<5	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<5	ug/kg
2-Butanone (MEK)	EPA 8260	<5	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<5	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<5	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg



To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

## **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

	110,000110.90 ₩ 011	l	
Client ID: UNK-22		Profile #:	
		Lab ID: AA04995	
Analyte	Method	Result	Units
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	110	%
Toluene-D8	EPA 8260	110	%
4-Bromofluorobenzene	EPA 8260	100	%
WTPH-HCID Soil	,		
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			-
Aroclor-1016	EPA 8080	< 0.20	mg/kg
Arcolor-1221	EPA 8080	< 0.20	mg/kg
Aroclor-1232	EPA 8080	< 0.20	mg/kg
Aroclor-1242	EPA 8080	< 0.20	mg/kg
Aroclor-1248	EPA 8080	< 0.20	mg/kg
Aroclor-1254	EPA 8080	< 0.20	mg/kg
Aroclor-1260	EPA 8080	< 0.20	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	79	%
DCB	EPA 8080	79	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	95.1	%
Ortho-terphenyl	WTPH-D	118	%
TX by Dohrmann	9076	<500	ppm



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FAX 206.227.6196

# **Analytical Report**

To: MARC STRICKLER

Report Date: 07/15/96 Sample Collected: 06/19/96

Project Name: UMATILLA

Generator: UMATILLA ARMY

P.O. No.:

Received Date: 06/19/96

Project No: 96W011

Job Number: 06191522

Work Order No.:

Profile #: Client ID: UNK-23 Lab ID: AA04996

Analyte	Method	Result	Units
8015 F-Listed Solvents in Solids			<b>C.2.3</b> 3
Ethyl Acetate	EPA 8015	<50	ug/kg
Methanol	EPA 8015	<50	ug/kg
. Isobutyl Alcohol	EPA 8015	<5	ug/kg
N-Butyl Alcohol	EPA 8015	<25	ug/kg
Pyridine	EPA 8015	<5	ug/kg
2-Ethoxyethanol	EPA 8015	<5	ug/kg
Cyclohexanone	EPA 8015	<5	ug/kg
Nitrobenzene	EPA 8015	<5	ug/kg
o-Cresol	EPA 8015	<5	ug/kg
p-Cresol	EPA 8015	<5	ug/kg
m-Cresol	EPA 8015	<5	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	76	%
8260 F-LISTED SOLVENTS IN SO			
Ethyl Ether	EPA 8260	<6	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<6	ug/kg
Acetone	EPA 8260	<6	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<6	ug/kg
2-Butanone (MEK)	EPA 8260	<6	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<2	ug/kg
2-Nitropropane	EPA 8260	<6	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<6	ug/kg
Toluene	EPA 8260	<2	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg



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# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Received Date: 00/19/90	Project No. 96 WUII	Job Namber.	00171322
Client ID: UNK-23		Profile #:	
	<b>Lab ID:</b> AA04996		
Analyte	Method	Result	Units
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate			
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene	EPA 8260	110	%
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.23	mg/kg
Arcolor-1221	EPA 8080	< 0.23	mg/kg
Aroclor-1232	EPA 8080	< 0.23	mg/kg
Aroclor-1242	EPA 8080	< 0.23	mg/kg
Aroclor-1248	EPA 8080	< 0.23	mg/kg
Aroclor-1254	EPA 8080	< 0.23	mg/kg
Aroclor-1260	EPA 8080	< 0.23	mg/kg
EPA 8080 PCB - Surrogates	•		
TCX	EPA 8080	85	%
DCB	EPA 8080	81	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	135	%
Ortho-terphenyl	WTPH-D	164	%
TX by Dohrmann	9076	<500	ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

## **Analytical Report**

To: MARC STRICKLER

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

UNK-24

Profile #:

Lab ID: AA04997

		Lab ID: AA04997	
Analyte	Method	Result	Units
8015 F-Listed Solvents in Solids			
Ethyl Acetate	EPA 8015	<10	ug/kg
Methanol	EPA 8015	<10	ug/kg
. Isobutyl Alcohol	EPA 8015	<1	ug/kg
N-Butyl Alcohol	EPA 8015	<5	ug/kg
Pyridine	EPA 8015	<1	ug/kg
2-Ethoxyethanol	EPA 8015	<1	ug/kg
Cyclohexanone	EPA 8015	<1	ug/kg
Nitrobenzene	EPA 8015	<1	ug/kg
o-Cresol	EPA 8015	<1	ug/kg
p-Cresol	EPA 8015	<1	ug/kg
m-Cresol	EPA 8015	<1	ug/kg
8015 F-Listed Solvents Surrogate			
Bromobenzene	EPA 8015	<b>68</b> .	%
8260 F-LISTED SOLVENTS IN SO	*		
Ethyl Ether	EPA 8260	<7	ug/kg
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg
Acetone	EPA 8260	<7	ug/kg
Carbon Disulfide	EPA 8260	<1	ug/kg
Methylene Chloride	EPA 8260	<7	ug/kg
2-Butanone (MEK)	EPA 8260	<7	ug/kg
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg
Carbon Tetrachloride	EPA 8260	<1	ug/kg
Benzene	EPA 8260	<1	ug/kg
Trichloroethene	EPA 8260	<3	ug/kg
2-Nitropropane	EPA 8260	<7	ug/kg
4-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg
Toluene	EPA 8260	<3	ug/kg
1,1,2-Trichloroethane	EPA 8260	<1	ug/kg
Tetrachloroethene	EPA 8260	<1	ug/kg
Chlorobenzene	EPA 8260	<1	ug/kg
Ethylbenzene	EPA 8260	<1	ug/kg
m,p-Xylene	EPA 8260	<1	ug/kg
o-Xylene	EPA 8260	<1	ug/kg
1,3-Dichlorobenzene	EPA 8260	<1	ug/kg



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No. 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Received Date: 06/19/96	Project No: 96W011	Job Number: 00191322	
Client ID: UNK-24	Profile #: Lab ID: AA04997		
Analyte	Method	Result	Units
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene EPA 8260/624 Surrogate	EPA 8260	<1	ug/kg
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene WTPH-HCID Soil	EPA 8260	110	%
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			• •
Aroclor-1016	EPA 8080	< 0.22	mg/kg
Arcolor-1221	EPA 8080	< 0.22	mg/kg
Aroclor-1232	EPA 8080	< 0.22	mg/kg
Aroclor-1242	EPA 8080	< 0.22	mg/kg
Aroclor-1248	EPA 8080	< 0.22	mg/kg
Aroclor-1254	EPA 8080	< 0.22	mg/kg
Aroclor-1260	EPA 8080	< 0.22	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	85	%
DCB WTPH Diesel Surrogates	EPA 8080	81	%
Bromobenzene	WTPH-D	125	%
Ortho-terphenyl	WTPH-D	145	%
TX by Dohrmann	9076	<500	ppm

Data Reviewed By

Data Reported Bo



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:	UNK-25	Profile #:
		I ab ID. A A 0.4000

	<b>Lab ID:</b> AA04998				
Analyte	Method	Result	Units		
8015 F-Listed Solvents in Solids					
Ethyl Acetate	EPA 8015	<50	ug/kg		
Methanol	EPA 8015	<50	ug/kg		
Isobutyl Alcohol	EPA 8015	<5	ug/kg		
N-Butyl Alcohol	EPA 8015	<25	ug/kg		
Pyridine	EPA 8015	<5	ug/kg		
2-Ethoxyethanol	EPA 8015	<5	ug/kg		
Cyclohexanone	EPA 8015	<5	ug/kg		
Nitrobenzene	EPA 8015	<5	ug/kg		
o-Cresol	EPA 8015	<5	ug/kg		
p-Cresol	EPA 8015	<5	ug/kg		
m-Cresol	EPA 8015	<5	ug/kg		
8015 F-Listed Solvents Surrogate					
Bromobenzene	EPA 8015	85	%		
3260 F-LISTED SOLVENTS IN SC	OLIDS				
Ethyl Ether	EPA 8260	<6	ug/kg		
1,1,2-Trichlorotrifluorethane	EPA 8260	<6	ug/kg		
Acetone	EPA 8260	<6	ug/kg		
Carbon Disulfide	EPA 8260	<1	ug/kg		
Methylene Chloride	EPA 8260	<6	ug/kg		
2-Butanone (MEK)	EPA 8260	<6	ug/kg		
,1,1-Trichloroethane	EPA 8260	<1	ug/kg		
Carbon Tetrachloride	EPA 8260	<1	ug/kg		
Benzene	EPA 8260	<1	ug/kg		
Trichloroethene	EPA 8260	<3	ug/kg		
-Nitropropane	EPA 8260	<6	ug/kg		
-Methyl-2-Pentanone (MIBK)	EPA 8260	<6	ug/kg		
Coluene	EPA 8260	⋖	ug/kg		
,1,2-Trichloroethane	EPA 8260	<1	ug/kg		
etrachloroethene	EPA 8260	<1	ug/kg		
Chlorobenzene	EPA 8260	<1	ug/kg		
Ethylbenzene	EPA 8260	<1	ug/kg		
ı,p-Xylene	EPA 8260	<1	ug/kg		
-Xylene	EPA 8260	<1	ug/kg		
,3-Dichlorobenzene	EPA 8260	<1	ug/kg		



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Received Date: 06/19/96

Sample Collected: 06/19/96

# **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID: UNK-25	<del>-</del>	Profile #:	
,	I	ab ID: AA04998	
Analyte	Method	Result	Units
1,4-Dichlorobenzene	EPA 8260	<1	ug/kg
1,2-Dichlorobenzene	EPA 8260	<1	ug/kg
EPA 8260/624 Surrogate	·		
1,2-Dichlorethane-D4	EPA 8260	120	%
Toluene-D8	EPA 8260	100	%
4-Bromofluorobenzene WTPH-HCID Soil	EPA 8260	110	%
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil	WTPH-HCID	<100	mg/kg
Polychlorinated Biphenyls			
Aroclor-1016	EPA 8080	< 0.21	mg/kg
Arcolor-1221	EPA 8080	< 0.21	mg/kg
Aroclor-1232	EPA 8080	< 0.21	mg/kg
Aroclor-1242	EPA 8080	< 0.21	mg/kg
Aroclor-1248	EPA 8080	< 0.21	mg/kg
Aroclor-1254	EPA 8080	< 0.21	mg/kg
Aroclor-1260	EPA 8080	< 0.21	mg/kg
EPA 8080 PCB - Surrogates			
TCX	EPA 8080	140	%
DCB	EPA 8080	79	%
WTPH Diesel Surrogates			
Bromobenzene	WTPH-D	138	%
Ortho-terphenyl	WTPH-D	165	%
TX by Dohrmann	9076	<500	ppm



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110

FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID: Profile #: **UNK-26** 

Tah TD. A A 0.4000

•	Lab			
Analyte	Method	Result	Units	
8015 F-Listed Solvents in Solids				
Ethyl Acetate	EPA 8015	<10	ug/kg	
Methanol	EPA 8015	<10	ug/kg	
Isobutyl Alcohol	EPA 8015	<1	ug/kg	
N-Butyl Alcohol	EPA 8015	<5	ug/kg	
Pyridine	EPA 8015	<1	ug/kg	
2-Ethoxyethanol	EPA 8015	<1	ug/kg	
Cyclohexanone	EPA 8015	<1	ug/kg	
Nitrobenzene	EPA 8015	<1	ug/kg	
o-Cresol	EPA 8015	<1	ug/kg	
p-Cresol	EPA 8015	<1	ug/kg	
m-Cresol	EPA 8015	<1	ug/kg	
8015 F-Listed Solvents Surrogate			•-	
Bromobenzene	EPA 8015	80	%	
8260 F-LISTED SOLVENTS IN SO	OLIDS			
Ethyl Ether	EPA 8260	<7	ug/kg	
1,1,2-Trichlorotrifluorethane	EPA 8260	<7	ug/kg	
Acetone	EPA 8260	<7	ug/kg	
Carbon Disulfide	EPA 8260	<1	ug/kg	
Methylene Chloride	EPA 8260	<7	ug/kg	
2-Butanone (MEK)	EPA 8260	<7	ug/kg	
1,1,1-Trichloroethane	EPA 8260	<1	ug/kg	
Carbon Tetrachloride	EPA 8260	<1	ug/kg	
Benzene	EPA 8260	<1	ug/kg	
Trichloroethene	EPA 8260	<3	ug/kg	
2-Nitropropane	EPA 8260	<7	ug/kg	
-Methyl-2-Pentanone (MIBK)	EPA 8260	<7	ug/kg	
Coluene	EPA 8260	<3	ug/kg	
,1,2-Trichloroethane	EPA 8260	<1	ug/kg	
etrachloroethene	EPA 8260	<1	ug/kg	
Chlorobenzene	EPA 8260	<1	ug/kg	
Ethylbenzene	EPA 8260	<1	ug/kg	
n,p-Xylene	EPA 8260	2.7	ug/kg	
-Xylene	EPA 8260	<1	ug/kg	
,3-Dichlorobenzene	EPA 8260	<1	ug/kg	



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

### **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Pageizzed Date: 06/10/06

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No. 0637011

Work Order No.:

P.O. No.:

Job Number: 06191522

Project No: 96W011	Job Number: 06191522			
Profile #: Lab ID: AA04999				
Method	Result	Units		
EPA 8260	<1	ug/kg		
EPA 8260	<1	ug/kg		
EPA 8260	120	%		
EPA 8260	100	%		
EPA 8260	110	%		
WTPH-HCID	<20	mg/kg		
WTPH-HCID	<50	mg/kg		
WTPH-HCID	<100	mg/kg		
EPA 8080	< 0.20	mg/kg		
EPA 8080	< 0.20	mg/kg		
EPA 8080	. < 0.20	mg/kg		
EPA 8080	< 0.20	mg/kg		
EPA 8080	< 0.20	mg/kg		
EPA 8080	< 0.20	mg/kg		
EPA 8080	< 0.20	mg/kg		
EPA 8080	85	%		
EPA 8080	81	%		
WTPH-D	134	%		
WTPH-D	164	%		
9076	<500	ppm		
	Method EPA 8260 EPA 8260 EPA 8260 EPA 8260 EPA 8260 WTPH-HCID WTPH-HCID WTPH-HCID WTPH-HCID EPA 8080	Profile #: Lab ID: AA04999  Method Result  EPA 8260 <1  EPA 8260		

Data Reviewed By:

Data Reported By



WESTERN REGION

To: MARC STRICKLER

Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

# **Analytical Report**

Report Date: 07/15/96

Sample Collected: 06/19/96

Received Date: 06/19/96

Generator: UMATILLA ARMY

Project Name: UMATILLA

Project No: 96W011

Work Order No.:

P.O. No.:

Job Number: 06191522

Client ID:

30-1-(4)

Profile #:

Lab ID: AA04958

Analyte	Method	Result	Units
WTPH-HCID Soil			
Gasoline	WTPH-HCID	<20	mg/kg
Diesel	WTPH-HCID	<50	mg/kg
Motor Oil WTPH Diesel Surrogates	WTPH-HCID	<100	mg/kg
Bromobenzene	WTPH-D	99.9	%
Ortho-terphenyl	WTPH-D	130	· %



Philip Environmental Laboratory 955 Powell Avenue S.W. Renton, WA 98055-2908 TEL 206.227.6110 FAX 206.227.6196

Report Date: 07/15/96

Sample Collected: 06/19/96

### **Analytical Report**

Generator: UMATILLA ARMY

Project Name: UMATILLA

Work Order No.:

P.O. No.:

Received Date: 06/19/96	Project No: 96W011	Job Number: 00	5191522		
Client ID: 30-2-(5)	Profile #: Lab ID: AA04959				
Analyte	Method	Result	Units		
Silver	EPA 6010	< 0.010	mg/L		
Arsenic	EPA 6010	< 0.100	mg/L		
Barium	EPA 6010	0.908	mg/L		
Cadmium	EPA 6010	< 0.005	mg/L		
Chromium	EPA 6010	< 0.010	mg/L		
Mercury	EPA 7470	< 0.0008	mg/L		
Lead	EPA 6010	< 0.100	mg/L		
Selenium	EPA 6010	< 0.300	mg/L		
TCLP (Extraction Procedure) WTPH-HCID Soil	EPA 1311	86.0 g			
Gasoline	WTPH-HCID	<20	mg/kg		
Diesel	WTPH-HCID	<50	mg/kg		
Motor Oil WTPH Diesel Surrogates	WTPH-HCID	<100	mg/kg		
Bromobenzene	WTPH-D	115	%		
Ortho-terphenyl	WTPH-D	126	%		

# ATTACHMENT B Inventory of Drums Generated by Dames & Moore and Disposed of Off-Post

#### ATTACHMENT B

# Dames & Moore Generated Drums Disposed of Off-Post Supplementary RI Aug-96

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM
• 1	4	4-8	1	-	-	grout, PVC, basalt frag, soil, water, drilling mud
2	4	4-8	2	•	•	grout, PVC, basalt frag, soil, water, drilling mud
3	4	4-8	3	-	•	grout, PVC, basalt frag, soil, water, drilling mud
<b>4</b>	4	4-8	4	•	-	grout, PVC, basalt frag, soil, water, drilling mud
5	4	4-8	5	-	-	grout, PVC, basalt frag, soil, water, drilling mud
6	4	4-8	6	•	-	grout, PVC, basalt frag, soil, water, drilling mud
7	4	4-8	7	-	•	grout, PVC, basalt frag, soil, water, drilling mud
8	4	4-8	8	•	-	grout, PVC, basalt frag, soil, water, drilling mud
9	4	4-8	9	-	-	grout, PVC, basalt frag, soil, water, drilling mud
10	4	4-8	10		-	grout, PVC, basalt frag, soil, water, drilling mud
11	4	4-8	11	-	-	grout, PVC, basalt frag, soil, water, drilling mud
12	4	4-8	12	-	-	grout, PVC, basalt frag, soil, water, drilling mud
13	4	4-8	13	•	-	grout, PVC, basalt frag, soil, water, drilling mud
14	4	4-9	1	•	-	grout
15	4	4-9	2	•	-	grout
16	4	4-9	1	•	-	grout and PVC
17	4	4-9	2	-	-	grout and PVC
18	4	4-9	3	•	-	grout and PVC
19	4	4-9	4	-	-	grout and PVC
20	4	4-9	5	•	-	grout and PVC
21	4	4-9	6	-	•	grout and PVC
22	4	4-9	7	-	-	grout and PVC
23	4	4-9	8	•	-	grout and PVC
24	4	4-9	9	•	-	grout and PVC
25	4	4-9	10	•	-	grout and PVC
26	4	4-9	11	•	-	grout and PVC
27	4	4-9	12	. <b>-</b>	-	grout and PVC
28	4	4-9	13	-	-	grout and PVC
29	4	4-9	14	-	-	grout and PVC
30	4	4-9	15	•	•	grout and PVC
31	4	4-9	16	•	-	grout and PVC
32	4	4-9	17	•	-	grout and PVC
33	4	4-9	18	-	-	grout and PVC
34	4	4-9	19	-	-	grout and PVC
35	4	4-9	20	•	-	grout and PVC
36	4	<b>4-9</b>	21	•	-	grout and PVC
- 37	4	4-9	22	-	-	grout and PVC
38	4	4-10	1	•	-	grout and PVC
39	4	4-10	2	-	-	grout and PVC
_ 40	4	4-10	3	-	-	grout and PVC
41	4	4-10	4	•	-	grout and PVC
42	4	4-10	5	•	-	grout and PVC
43	4	4-10	6	-	-	grout and PVC
44	4	4-10	7	-	-	grout and PVC
45	4	4-10	8	-	-	grout and PVC
46	4	4-10	9	-	-	grout and PVC
47	4	4-10	10	-	-	grout and PVC
48	4	4-10	11	-	-	grout and PVC
49	4	4-10	12	-	-	grout and PVC
50	4	4-10	13	-	-	grout and PVC

				TAGILLE (COM		
	SITE ID	DRUM LABEL	DRUM #	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM
51	4	4-10	14	•	•	grout and PVC
52	4	4-10	15	-	•	grout and PVC
53	4	4-10	16	-	-	grout and PVC
54	4	4-10	17	-	-	grout and PVC
55	4	4-10	18	•	•	grout and PVC
56	4	4-10	19	-	•	grout and PVC
57	4	4-10	20 .	•	-	grout and PVC
58	4	4-15	5	-	-	grout and PVC
59	4	4-17	1	-	•	grout and PVC
60	4	<b>4-</b> 17	2	-	-	grout and PVC
61	4	4-17	3	•	-	grout and PVC
62	4	4-17	4	•	•	grout and PVC
63	4	4-17	5	-	•	grout and PVC
64	4	4-17	6	-	•	grout and PVC
65	4	4-17	7	-	_	grout and PVC
66	4	4-17	8		_	grout and PVC
67	4	4-17	9	-	•	
68	4	4-17	10	-		grout and PVC
69	4	4-17	11	-	-	grout and PVC
70	4			-	•	grout and PVC
		4-17	12	•	•	grout and PVC
71	4	4-17	13	-	•	grout and PVC
72	4	4-17	14	•	•	grout and PVC
73	4	<b>4-</b> 17	15	-	•	grout and PVC
74	4	4-17	16	•	-	grout and PVC
75	4	4-17	17	-	•	grout and PVC
76	4	4-17	18	•	•	grout and PVC
77	4	4-17	19	-	-	grout and PVC
78	4	4-17	20	•	-	grout and PVC
79	4	4-17	21	-	•	grout and PVC
80	4	4-17	22	-	-	grout and PVC
81	4	4-17	23	-	-	grout and PVC
82	4	4-17	24	-	-	grout and PVC
83	4	4-17	25	-	-	grout and PVC
84	4	<b>4-</b> 17	26	-	-	grout and PVC
85	4	4-17	27	•	-	grout and PVC
86	4	4-17	28	-	-	grout and PVC
87	4	4-17	29	-	-	grout and PVC
88	4	4-17	30	. •	•	grout and PVC
89	4	4-17	31	-	-	grout and PVC
90	4	4-17	32	-	•	grout and PVC
91	4	4-17	33	•	•	grout and PVC
92	4	4-17	34	-	-	grout and PVC
93	4	4-17	35	-	•	grout and PVC
94	4	4-17	36	-	•	grout and PVC
95	4	4-17	37	-	-	grout and PVC
96	4	4-17	38	•	-	grout and PVC
97	4	4-17	39	•	-	grout and PVC
98	4	4-19	17	11/14/92	•	grout
99	4	4-19	18	11/14/92	-	grout
100	4	4-19	19	11/14/92	•	grout
101	4	4-19	20	11/14/92	-	grout
102	4	4-19	21	11/14/92	•	grout
103	4	4-19	22	11/14/92	-	grout
104	4	4-19	23	11/14/92	-	grout
105	4	4-19	24	11/14/92	-	grout
106	4	4-19	25	11/14/92	•	
107	4	4-19	26	11/14/92	•	grout
108	4	4-20	12	12/5/92	-	grout
109	4	4-20	13	12/5/92	_	grout
110	4	4-20	14	12/4/92	_	grout
111	4	4-20	15	12/4/92	-	grout
•	•	. 20	15	127172	-	grout

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM
112	4	4-20	16	12/4/92	-	grout
113	4	4-20	17	12/4/92	-	grout
114	4	4-20	18	12/4/92	-	grout
115	4	4-20	19	12/4/92	-	grout
116	4	4-20	20	12/5/92	•	grout
117	4	4-21	16	11/18/92	-	grout
118	4	4-21	17	11/18/92	-	grout
119	4	4-21	18	11/18/92	-	grout
120	4	4-21	19	11/18/92	-	grout
121	4	4-21	20	11/18/92	-	grout
122	4	4-21	21	11/18/92	-	grout
123	4	4-21	22	11/18/92	-	grout
124	4	4-21	23	11/18/92	-	grout
125	4	4-21	24	11/18/92	-	grout
_ 126	4	4-21	25	11/18/92	•	grout
127	4	4-22	8	12/8/92	-	grout
128	4	4-22	9	12/4/92	•	grout
129	4	4-22	10	12/4/92	-	grout
130	4	4-22	11	12/4/92	-	grout
131	4	4-22	12	12/4/92	-	grout
132	4	4-22	13	12/8/92	-	grout
133 134	4 4	4-22	14	12/8/92	-	grout
135	4	4-22 4-22	15 16	12/8/92	-	grout
136	4	4-22 4-22	16 17	12/8/92	-	grout
137	4	4-22 4-22	18	12/8/92	-	grout
138	4	4-22	19	12/8/92	-	grout
139	4	4-22	20	12/8/92 12/9/92	-	grout
140	4	4-22	21	12/9/92	-	grout
141	4	4-22	22	12/9/92	•	grout
142	4	4-22	23	12/9/92	<u>.</u> -	grout
143	4	4-22	24	12/9/92	<u>.</u>	grout
144	4	4-22	25	12/9/92	•	grout
145	4	4-22	26	12/9/92	_	grout grout
146	4	4-24	11	11/15/92	-	grout
147	4	4-24	12	11/15/92	_	grout
148	4	4-25	34	9/17/93	_	grout
149	4	4-25	35	9/17/93	-	grout
150	4	4-26/4-P3	22	9/18/93	•	grout
151	4	4-26/4-P4	25	9/18/93	-	grout
152	4	4-P1	8	9/14/93	-	grout
153	4	4-P1	12	9/14/93	-	grout
154	4	4-P2	16	9/16/93	-	grout
155	4	4-P2	19	9/16/93	-	grout
156	35	S35-1,2&3	1	9/19/90	-	sand/gravel
157	-	UST 11 (STA 1,2,3,4)	. 10	9/21/93	•	grout
158	-	UST 18	1	9/29/92	-	diesel spillage waste
- 159	-	UST 20 (STA 13,14)	7	9/18/93	-	grout
160	•	UST 20 (STA 13,14)	37	9/18/93	0-10	soil cuttings
161	-	Evap. Pond #1	1	9/1/92	-	sediment
162	-	Evap. Pond #1	2	9/1/92	-	sediment
163	-	Evap. Pond #1	3	9/1/92	•	sediment
164	-	Evap. Pond #1	4	9/1/92	-	sediment
165	•	Evap. Pond #1	5	9/1/92	-	sediment
166	•	Evap. Pond #1	6	9/1/92	-	sediment
167	•	Evap. Pond #1	7	9/1/92	-	sediment
168	•	Evap. Pond #1	8	9/1/92	-	sediment
169	-	Evap. Pond #1	9	9/1/92	-	sediment
170	•	Evap. Pond #1	10	9/1/92	-	sediment
171	•	Evap. Pond #1	11	9/1/92	-	sediment
172	•	Evap. Pond #1	12	9/1/92	-	sediment

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM
173	-	Evap. Pond #1	13	9/1/92	-	sediment
174	-	Evap. Pond #1	14	9/1/92	-	sediment
175	•	Evap. Pond #1	15	9/1/92	-	sediment
176	-	Evap. Pond #1	16	9/1/92	•	sediment
177	•	Evap. Pond #1	17	9/1/92	•	sediment
178	-	Evap. Pond #1	18	9/1/92	-	sediment
179	-	Evap. Pond #1	19 .	9/1/92	-	sediment
180	-	Evap. Pond #1	20	9/1/92	-	sediment
181	•	Evap. Pond #1	21	9/1/92	-	sediment
182	-	Evap. Pond #2	1	9/2/92	-	sediment
183	-	Evap. Pond #2	2	<b>9/2</b> /92	-	sediment
184	-	Evap. Pond #2	3	<b>9/2</b> /92	-	sediment
185	-	Evap. Pond #2	4	<i>9/2/</i> 92	-	sediment
186	•	Evap. Pond #2	5	<b>9/2</b> /92	-	sediment
187	-	Evap. Pond #2	6	<b>9/2</b> /92	•	sediment
188	-	Evap. Pond #2	7	<b>9/2</b> /92	-	sediment
189	-	Evap. Pond #2	8	<b>9/2</b> /92	-	sediment
190	•	Evap. Pond #2	9	9/2/92	-	sediment
191	•	Evap. Pond #2	10	9/2/92	•	sediment
192	-	Evap. Pond #2	11	9/2/92	-	sediment
193	-	Evap. Pond #2	12	9/2/92	-	sediment
194	-	Evap. Pond #2	13	9/2/92	-	sediment
195	•	Evap. Pond #2	14	<b>9/2</b> /92	-	sediment
196	-	Evap. Pond #2	15	<b>9/2</b> /92	-	sediment
197	-	Evap. Pond #2	16	<b>9/2/</b> 92	•	sediment
198	-	Evap. Pond #2	17	9/2/92	-	sediment
199	-	Evap. Pond #2	18	9/2/92	-	sediment
200	-	Evap. Pond #2	19	9/2/92	-	sediment
201	•	Evap. Pond #2	20	9/2/92	•	sediment
202 203	-	Evap. Pond #2	21	9/2/92	-	sediment
203	-	Evap. Pond #2 Evap. Pond #2	22 23	9/2/92	-	sediment
205	-	Evap. Pond #2	24	<b>9/2</b> /92 <b>9/2</b> /92	-	sediment
206		Evap. Pond #2	25	9/2/92	<u>-</u>	sediment sediment
207	_	Evap. Pond #2	26	<b>9/2</b> /92	-	sediment
208		Evap. Pond #1	1	9/17/92	_	sand
209	-	Evap. Pond #1	2	9/17/92	_	sand
210	_	Evap. Pond #1	3	9/17/92		sand
211	-	Evap. Pond #1	4	9/17/92	•	sand
212	-	Evap. Pond #1	5	9/17/92	-	sand
213	•	Evap. Pond #1	6	9/17/92	-	sand
214	-	Evap. Pond #1	7	9/14/92	•	sand
215	-	Evap. Pond #1	8	9/14/92	-	sand
216	-	Evap. Pond #1	9	9/14/92	-	sand
217	•	Evap. Pond #1	10	9/14/92	-	sand
218	•	Evap. Pond #1	11	9/14/92	-	sand
219	-	Evap. Pond #1	12	9/14/92	-	sand
220	-	Evap. Pond #1	13	9/14/92	-	sand
221	-	Evap. Pond #1	14	9/14/92	-	sand
222	-	Evap. Pond #1	15	9/14/92	-	sand
223	-	Evap. Pond #1	16	9/14/92	•	sand
224	•	Evap. Pond #1	17	9/14/92	•	sand
225	•	Evap. Pond #1	18	9/14/92	•	sand
226	•	Evap. Pond #1	19	9/14/92	-	sand
227	-	Evap. Pond #1	20	9/14/92	-	sand
228	-	Evap. Pond #1	21	9/14/92	-	sand
229	-	Evap. Pond #1	22	9/14/92	-	sand
230	•	Evap. Pond #1	23	9/14/92	-	sand
231	-	Evap. Pond #1	24	9/14/92	•	sand
232	•	Evap. Pond #1	25	9/14/92	-	sand
233	-	Evap. Pond #1	26	9/14/92	-	sand

	SITE ID	DRUM LABEL	DRUM #	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM
234	-	Evap. Pond #1	27	9/14/92	-	sand
235	-	Evap. Pond #1	28	9/14/92	-	sand
236	-	Evap. Pond #1	29	9/14/92	•	sand
237	-	Evap. Pond #1	30	9/14/92	-	sand
238	-	Evap. Pond #1	31	9/14/92	•	sand
239	-	Evap. Pond #1	32	9/15/92	-	sand
240	-	Evap. Pond #1	33 _	9/15/92		sand
241	-	Evap. Pond #1	34	9/15/92	•	sand
242	-	Evap. Pond #1	35	9/15/92	•	sand
243	-	Evap. Pond #1	36	9/15/92	•	sand
244	•	Evap. Pond #1	37	9/15/92	-	sand
· 245	•	Evap. Pond #1	38	9/14/92	•	sand
246	-	Evap. Pond #1	39	9/14/92	•	sand
247	•	Evap. Pond #1	40	9/15/92	•	sand
248 249	-	Evap. Pond #1	41	9/14/92	•	sand
2 <del>49</del> 250	-	Evap. Pond #1 Evap. Pond #1	42 43	9/14/92	•	sand
250 251	-	Evap. Pond #1	43 44	9/14/92 9/15/92	-	sand
252		Evap. Pond #1	45	9/14/92	•	sand
253	_	Evap. Pond #1	46	9/14/92	•	sand
254	-	Evap. Pond #1	47	9/14/92	•	sand
255	_	Evap. Pond #1	48	9/17/92	-	sand sand
256	_	Evap. Pond #1	49	9/17/92	-	sand
257	_	Evap. Pond #1	50	9/14/92	_	sand
258	•	Evap. Pond #1	51	9/14/92	•	sand
259	-	Evap. Pond #1	52	9/16/92	-	sand
260	-	Evap. Pond #1	53	9/17/92	•	sand
261	-	Evap. Pond #1	54	9/14/92	-	sand
262	-	Evap. Pond #1	55	9/16/92	-	sand
263	-	Evap. Pond #1	56	9/16/92	-	sand
264	-	Evap. Pond #1	57	9/14/92	•	sand
265	-	Evap. Pond #1	58	9/16/92	-	sand
266	-	Evap. Pond #1	59	9/16/92	•	sand
267	-	Evap. Pond #1	60	9/14/92	-	sand
268	-	Evap. Pond #1	61	9/15/92	•	sand
269	-	Evap. Pond #1	62	9/15/92	-	sand
270	-	Evap. Pond #1	63	9/15/92	-	sand
271	-	Evap. Pond #1	64	9/16/92	-	sand
272	-	Evap. Pond #1	65	9/14/92	•	sand
273	-	Evap. Pond #1	66	9/15/92	-	sand
274 275	-	Evap. Pond #1	67	9/15/92	-	sand
275 276	-	Evap. Pond #1 Evap. Pond #1	68	9/14/92	•	sand
277	•	Evap. Pond #1	69 70	9/17/92 9/14/92	-	sand
278	-	Evap. Pond #1	70 71	9/17/92		sand
279	-	Evap. Pond #1	72	9/14/92	-	sand sand
280	_	Evap. Pond #1	73	9/14/92	_	sand
- 281	-	Evap. Pond #1	74	9/17/92	•	sand
282	-	Evap. Pond #1	75	9/17/92	-	sand
283	-	Evap. Pond #1	76	9/14/92	-	sand
284	-	Evap. Pond #1	77	9/17/92	-	sand
285	-	Evap. Pond #1	78	9/17/92	-	sand
286	-	Evap. Pond #1	79	9/17/92	-	sand
287	-	Evap. Pond #1	80	9/14/92	•	sand
288	•	Evap. Pond #1	81	9/14/92	-	sand
289		Evap. Pond #1	82	9/17/92	•	sand
290	-	Evap. Pond #1	83	9/14/92	•	sand
291	•	Evap. Pond #1	84	9/17/92	-	sand
292	-	Evap. Pond #1	85	9/24/92	-	sand
293	•	Evap. Pond #1	86	9/15/92	-	sand
294	-	Evap. Pond #1	87	9/15/92	-	sand

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM
295	-	Evap. Pond #1	88	9/15/92	-	sand
296	-	Evap. Pond #1	89	9/15/92	•	sand
297	-	Evap. Pond #1	90	9/15/92	-	sand
298	-	Evap. Pond #1	91	9/15/92	-	sand
299	-	Evap. Pond #1	92	9/15/92	•	sand
300	-	Evap. Pond #1	93	9/15/92	•	sand
301	-	Evap. Pond #1	94	9/15/92		sand
302	-	Evap. Pond #1	95	9/15/92	•	sand
303	-	Evap. Pond #1	96	9/15/92	-	sand
304	-	Evap. Pond #1	97	9/15/92	-	sand
305	-	Evap. Pond #1	98	9/15/92	-	sand
306	-	Evap. Pond #1	99	9/15/92	•	sand
307	-	Evap. Pond #1	100	9/15/92	-	sand
308	-	Evap. Pond #1	101	9/17/92	-	sand
309 310	-	Evap. Pond #1 Evap. Pond #1	102 103	9/15/92 9/15/92	-	sand sand
311	-	Evap. Pond #1	104	9/17/92	-	sand
312	-	Evap. Pond #1	105	9/15/92	-	sand
313	-	Evap. Pond #1	106	9/14/92	_	sand
314	•	Evap. Pond #1	107	9/15/92	_	sand
315	•	Evap. Pond #1	108	9/16/92	_	sand
316	-	Evap. Pond #1	109	9/16/92	-	sand
317	_	Evap. Pond #1	110	9/16/92	_	sand
318	_	Evap. Pond #1	111	9/16/92	-	sand
319	_	Evap. Pond #1	112	9/17/92	-	sand
320	-	Evap. Pond #1	113	9/17/92	-	sand
321	-	Evap. Pond #1	114	9/15/92	•	sand
322	-	Evap. Pond #1	115	9/16/92	•	sand
323	-	Evap. Pond #1	116	9/17/92	-	sand
324	-	Evap. Pond #1	117	9/16/92	-	sand
325	-	Evap. Pond #1	118	9/15/92	-	sand
326	-	Evap. Pond #1	119	9/15/92	-	sand
327	-	Evap. Pond #1	120	9/15/92	-	sand
328	-	Evap. Pond #1	121	9/16/92	•	sand
329	-	Evap. Pond #1	122	9/17/92	-	sand
330	-	Evap. Pond #1	123	9/16/92	•	sand
331	-	Evap. Pond #1	124	9/15/92	-	sand
332	-	Evap. Pond #1	125	9/16/92	•	sand
333 334	-	Evap. Pond #1 Evap. Pond #1	126 127	9/15/92 9/16/92	• •	sand sand
335	-	Evap. Pond #1	128	9/17/92	_	sand
336	- -	Evap. Pond #1	129	9/16/92	-	sand
337		Evap. Pond #1	130	9/16/92	-	sand
338	-	Evap. Pond #1	131	9/16/92	-	sand
339	-	Evap. Pond #1	132	9/16/92	-	sand
340	-	Evap. Pond #1	133	9/17/92	-	sand
341	-	Evap. Pond #1	134	9/16/92	-	sand
342	-	Evap. Pond #1	135	9/17/92	-	sand
343	-	Evap. Pond #1	136	9/16/92	-	sand
344	-	Evap. Pond #1	137	9/17/92	-	sand
345	-	Evap. Pond #1	138	9/16/92	-	sand
346	-	Evap. Pond #1	139	9/17/92	-	sand
347	•	Evap. Pond #1	140	9/16/92	-	sand
348	•	Evap. Pond #1	141	9/16/92	-	sand
349	-	Evap. Pond #1	142	9/16/92	-	sand
350	•	Evap. Pond #1	143	9/17/92	-	sand
351	•	Evap. Pond #1	144	9/16/92	-	sand
352	-	Evap. Pond #1	145	9/17/92	-	sand
353	-	Evap. Pond #1	146	9/17/92	-	sand
354	-	Evap. Pond #1	147	9/17/92	-	sand
355	-	Evap. Pond #1	148	9/17/92	-	sand

	CITE ID	DOUBLE		DATE ON DRUM	, DEDTH (ET)	DECORPTION ON BRUIL
356	SITE ID	DRUM LABEŁ Evap. Pond #1	DRUM # · 149	DATE ON DRUM 9/16/92	DEPTH (FT)	DESCRIPTION ON DRUM
357	-	Evap. Pond #1	150	9/16/92	<u>.</u>	sand sand
358		Evap. Pond #1	151	9/17/92	-	sand
359	•	Evap. Pond #1	152	9/16/92	-	sand
360	-	Evap. Pond #1	153	9/16/92	•	sand
361	-	Evap. Pond #1	154	9/16/92	•	sand
362	-	Evap. Pond #1	155 -	9/17/92	-	sand
363	•	Evap. Pond #1	156	9/16/92	•	sand
364	-	Evap. Pond #1	157	9/17/92	-	sand
365	-	Evap. Pond #1	158	9/16/92	-	sand
366	-	Evap. Pond #1	159	9/16/92	-	sand
* 367	-	Evap. Pond #1	160	9/17/92	•	sand
368	•	Evap. Pond #1	161	9/17/92	-	sand
369	-	Evap. Pond #1	162	9/17/92	-	sand
<b>-</b> 370	•	Evap. Pond #1	163	9/17/92	•	sand
371	•	Evap. Pond #1	164	9/17/92	•	sand
372 373	•	Evap. Pond #1	165 166	9/17/92	-	sand
373 374	•	Evap. Pond #1 Evap. Pond #1	167	9/17/92 9/17/92	-	sand
374	-	Evap. Pond #1	168	9/17/92	-	sand sand
376	•	Evap. Pond #1	169	9/17/92	•	sand
377	-	Evap. Pond #1	170	9/16/92	-	sand
378	-	Evap. Pond #1	171	9/16/92	-	sand
379	_	Evap. Pond #1	172	9/17/92	•	sand
380	-	Evap. Pond #1	173	9/17/92	-	sand
381	•	Evap. Pond #1	174	9/17/92	-	sand
382	-	Evap. Pond #1	175	9/17/92	•	sand
383	-	Evap. Pond #1	176	9/17/92	-	sand
384	-	Evap. Pond #1	177	9/17/92	-	sand
385	-	Evap. Pond #1	178	9/17/92	-	sand
386	-	Evap. Pond #1	179	9/17/92	-	sand
387	-	Evap. Pond #1	180	9/17/92	-	sand
388 389	-	Evap. Pond #1	181	9/17/92	-	sand
390	_	Evap. Pond #1 Evap. Pond #1	182 183	9/17/92 9/17/92	•	sand sand
391	_	Evap. Pond #1	184	9/17/92	-	sand
392	-	Evap. Pond #1	185	9/17/92	•	sand
393	•	Evap. Pond #1	186	9/17/92	-	sand
394	-	Evap. Pond #1	1	10/9/92	-	Clean, new liner/trash
395	-	Evap. Pond #1	2	10/9/92	•	Clean, new liner/trash
396	-	Evap. Pond #1	3	10/9/92	-	Clean, new liner/trash
397	-	Evap. Pond #1	4	10/9/92	-	Clean, new liner/trash
398	-	Evap. Pond #1	5	10/9/92	•	Clean, new liner/trash
399	•	Evap. Pond #1	6	10/9/92	-	Clean, new liner/trash
400	•	Evap. Pond #1	0	9/25/92	-	Old liner/netting
401	•	Evap. Pond #1	0	9/24/92	•	Old poly liner
402	•	Evap. Pond #1	0	9/24/92	•	Old poly liner
403	•	Evap. Pond #1	0	9/1/92	•	soiled weeds
404 405	•	Evap. Pond #1	0	9/25/92	-	Old liner
406 - 406	•	Evap. Pond #2 Evap. Pond #2	8 0	9/1/92 9/1/92	-	Clean trash
407	•	Evap. Pond #2	0	9/1/92 9/1/92	•	PPE
408	•	Evap. Ponds	0	9/1/92	-	soiled weeds soiled weeds
409	-	Evap. Ponds	0	9/1/92	- -	soiled weeds
410	-	Evap. Ponds	Ö	9/1/92	- -	soiled weeds
411	-	Evap. Ponds	0	9/1/92	-	soiled weeds
412	-	Evap. Ponds	Ō	9/1/92	-	soiled weeds
413	•	Evap. Ponds	7	9/1/92	-	PPE
414	-	Trash	1	12/5/92	-	trash
415	-	Trash	2	12/5/92	-	clean trash
416	-	Trash	3	12/5/92	-	clean trash

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM
417	-	Trash	4	12/5/92	•	clean trash
418	-	Trash	9	9/1/92	•	clean trash
419	-	Trash	10	9/13/92	-	trash building 118
420	-	Trash	11	10/1/92	•	clean trash
421	-	Trash	12	10/26/92	-	trash, UMDA
422	-	Trash	13	10/26/92	-	trash, storage 118
423	-	Trash.	14	10/26/92	-	trash, UMDA
424	4	4-107	1	2/28/95		purge water
425	4	4-107	2	2/28/95		purge water
426	, <b>4</b>	4-107	3	2/28/95		purge water
427	4	4-109	1	2/28/95		purge water
428	4	4-109	2	2/28/95		purge water
429	4	4-109	3	2/28/95		purge water
430	4	4-110	1	2/28/95		purge water
431	4	4-110	2	2/28/95		purge water
432	4	4-110	3	2/28/95		purge water
433	4	4-110	4	2/28/95		purge water
434	4	4-110	5	2/28/95		purge water

### ATTACHMENT C

Profile Sheets for Wastestreams UMAD-4, UMAD-6, UMAD-16, and UMAD-27

PHILIP ENVIRONMENTAL INC. Page 1 Starts : 21 JUN Expires: 31 MAY PROFILE # : UMAD-4-00 Status: PENDING Sales Rep: 951 Kurtz, Kristina GENERATOR'S WASTE MATERIAL PROFILE SHEET Printed: 16 JUL 96 Acct Mgr: 759 McReynolds, Mar A. GENERATOR SITE INFORMATION B. CUSTOMER ADDRESS: Generator # 14634 US ARMY DEPOT - UMATILLA Customer # 20312 DAMES & MOORE 849 INTERNATIONAL DR #320 EPA # ORD213820917 EXIT 167, ROUTE 84 ROUTE 84 (541) 564-5294 Phone Contact Mark Daugherty SIC Codes 9199 LINTHICUM MD 21090 HERMISTON OR 97838 C. WASTE INFORMATION On File: MSDS Yes Analysis Sample No Waste Name: Used grout Process : Leftover grout from mw installation D. PHYSICAL CHARACTERISTICS OF WASTE Layers 1 Single Phased Spec Grav 2.45-2.5 Free Liq % 0-1% Top Color TAN TO GRAY Mid Color PhysStates P-Pow PH Range 8-12 FlashTest NT BLUEGRAY TO GREEN G-Slu Bot Color FlashRange No Flash E. COMPOSITION OF WASTE Info Provided by: Gen Sulfides NO PCBs NO Cyanides NO Phenolics NO Chemical Min-Max% Range 50% 90% 1% 2% 0% 1% CRYSTALLINE SILICA 1% 0% 0% LIMESTONE CALCIUM SULFATE 1% WATER F. METALS <5 Arsenic Lead Silver Zinc Barium Metals Test Method GEN <100 Mercury <0.2 Nickel <134 Copper Cadmium <1 Selenium <1 Thallium <130 Chrome-6 Chromium <5 OTHER METALS PPM G. OTHER CHARACTERISTICS OF WASTE Ign. Solid No Reactive Dangerous When Wet No No Shock Sensitive Inhalation Hazard No Poisonous No No Oxidizer No Corrosive No Waste Water No Water Reactive Carcinogen No Marine Pollution No H. USE EPA / STATE WASTE IDENTIFICATION **B306** Dang/Haz Waste No Form Code TSCA Reportable Yes **CERCLA** DW / EHW NESHAPS Source Code A77 OSHA/WISHA Origin Code Household Orgnc/Inorgnc Debris **EPA Codes** State Codes I. SHIPPING INFORMATION DOT Haz Mtrl DOT ID# One Time Only

DOT Shipping Name MATERIAL NOT REGULATED BY DOT

DOT Hazard Class SUB DOT Haz Class Container Type DM Metal Drum

Qty to Ship Now 71 Projected Volume 71

/ Month

PKG ERG [ ] RQ N/A

Starts: 21 JUN 96 Expires: 31 MAY 97	GENERATOR'S WASTE MATERIAL PROFILE SHEET	PROFILE # : UMAD-4-00 Status: PENDING
Printed: 16 JUL 96		Sales Rep: 951 Kurtz, Kristina Acct Mgr: 759 McReynolds, Mar

Additional Description

J. SPECIAL HANDLING INFORMATION

MSDS PROVIDED BY CUSTOMER NO SAMPLE REQUIRED. FORWARD ALL QUESTIONS TO MARC STRICKLER WCSS JOB# 96W011

**GENERATOR CERTIFICATION** 

I hereby certify, as an authorized representative of the Generator named above, that BEI has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate.

If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing on the date listed above.

BEAC ENV. Condinator

97

PROFILE # : UMAD-6-00

Starts: 17 JUL Expires: 30 JUN Status: PENDING Sales Rep: 951 Kurtz, Kristina Acct Mgr: 759 McReynolds, Mar GENERATOR'S WASTE MATERIAL PROFILE SHEET 96 Printed: 26 JUL A. GENERATOR SITE INFORMATION B. CUSTOMER ADDRESS: Generator # 14634 US ARMY DEPOT - UMATILLA EXIT 167, ROUTE 84 ROUTE 84 Customer # 20312 EPA # DAMES & MOORE 849 INTERNATIONAL DR #320 ORD213820917 (541) 564-5294 Phone Contact Mark Daugherty LINTHICUM MD 21090 HERMISTON OR 97838 SIC Codes 9199 C. WASTE INFORMATION On File: MSDS No Analysis Yes Sample No Waste Name: Diesel, Oil and Debris Process : Diesel and Oil spill D. PHYSICAL CHARACTERISTICS OF WASTE PhysStates S-Sol Top Color VARIES Mid Color VARIES Layers 0 NA PH Range 4.1-10 Layers 0 NA Spec Grav 2 TO 3 Free Liq % 0 TO 1% S-Sol FlashTest Bot Color VARIES FlashRange >200 s-sol E. COMPOSITION OF WASTE Info Provided by: Lab PCBs N Cyanides N Phenolics N Sulfides N Chemical Min-Max% Range SAND, SOIL, PPE, DEBRIS, 100% PLASIC CONTAMINATED DIESEL AND OIL F. METALS Arsenic Lead Silver Zinc Metals Test Method EPA Barium <100 Mercury <0.2 <134 Nickel Copper Cadmium <1 Selenium <1 Thallium <130 Chrome-6 Chromium <5 OTHER METALS PPM G. OTHER CHARACTERISTICS OF WASTE Ign. Solid No Reactive No Dangerous When Wet No Shock Sensitive No Poisonous No Inhalation Hazard No 0xidizer Corrosive No Waste Water No No Water Reactive Carcinogen No Marine Pollution H. USE EPA / STATE WASTE IDENTIFICATION Exempt B301 TSCA Dang/Haz Waste No Form Code Reportable No DW / EHW Source Code A53 CERCLA OSHA/WISHA NESHAPS Origin Code 1 Household Orgnc/Inorgnc Debris **EPA Codes** State Codes I. SHIPPING INFORMATION DOT Haz Mtrl DOT ID# One Time Only DOT Shipping Name MATERIAL NOT REGULATED BY DOT DOT Hazard Class Oty to Ship Now 18 Container Type DM Metal Drum SUB DOT Haz Class Projected Volume 18 / Month PKG ERG [ ] RQ

Starts : Expires:		96 97	GENERATOR'S WASTE MATERIAL PROFILE SHEET	PROFILE # : UMAD-6-00 Status: PENDING Sales Rep: 951 Kurtz, Kristina
Printed:	26 JUL	96		Acct Mgr: 759 McReynolds, Mar

Additional Description

J. SPECIAL HANDLING INFORMATION

MATERIAL HAS A HIGH TPH RANGE.

FORWARD ALL QUESTIONS TO MARC STRICKLER WCSS.

GENERATOR CERTIFICATION

I hereby certify, as an authorized representative of the Generator named above, that BEI has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate.

If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing on the date listed above.

BRAC ENV COOKLINATOR 8/7/96
Title Date

PHILIP ENVIRONMENTAL INC. Page 1 Starts: 24 JUN Expires: 31 MAY PROFILE # : UMAD-16-00 Status: PENDING
Sales Rep: 951 Kurtz, Kristina
Acct Mgr: 759 McReynolds, Mar GENERATOR'S WASTE MATERIAL PROFILE SHEET Printed: 16 JUL 96 A. GENERATOR SITE INFORMATION B. CUSTOMER ADDRESS: Generator # 14634 US ARMY DEPOT - UMATILLA Customer # 20312 DAMES & MOORE 849 INTERNATIONAL DR #320 ORD213820917 EPA # EXIT 167, ROUTE 84 ROUTE 84 (541) 564-5294 Phone Contact Mark Daugherty SIC Codes 9199 LINTHICUM MD 21090 HERMISTON OR 97838 C. WASTE INFORMATION On File: MSDS No Analysis Sample Yes Waste Name: GROUT WITH WATER Process : leftover grout from mw installation D. PHYSICAL CHARACTERISTICS OF WASTE Top Color CLEAR TO WHITE 2 Bi-Layered 12-14 PH Range PhysStates L-Liq Lavers FlashTest Open Mid Color Spec Grav 2-3 Bot Color BLUEGRAY TO GREEN G-Slu Free Liq % 0-75% FlashRange No Flash E. COMPOSITION OF WASTE Info Provided by: Gen PCBs NO Cyanides NO Phenolics NO Sulfides NO Min-Max% Range Chemical CRYSTALLINE SILICA 10% 30% 1% 2% 0% 1% LIMESTONE CALCIUM SULFATE 75% WATER 10% F. METALS Arsenic Lead <5 Silver Zinc Metals Test Method GEN Barium <100 Hercury <0.2 Nickel <134 Copper Cadmium <1 Selenium <1 Thallium <130 Chrome-6 Chromium <5 OTHER METALS PPM G. OTHER CHARACTERISTICS OF WASTE Ign. Solid Dangerous When Wet No Reactive No No Shock Sensitive Inhalation Hazard No Poisonous No No Oxidizer No Corrosive No Waste Water No Water Reactive Carcinogen No Marine Pollution No No H. USE EPA / STATE WASTE IDENTIFICATION Exempt Dang/Haz Waste Yes Form Code **B114** TSCA Reportable Yes CERCLA DW / EHW DW Source Code A59 OSHA/WISHA NESHAPS N Origin Code 1 Household Orgnc/Inorgnc R Debris **EPA Codes** D002 State Codes WT02

I. SHIPPING INFORMATION

DOT Haz Mtrl

DOT ID# UN1719

One Time Only

DOT Shipping Name Waste caustic alkali liquids, n.o.s.

(CALCIUM SULFATE, LIME)

DOT Hazard Class SUB DOT Haz Class

Container Type DM Metal Drum

Qty to Ship Now 12

Projected Volume 12

/ Month

PKG II ERG [60] RQ N/A

Starts : Expires:	24 JUN 31 MAY		GENERATOR'S WASTE MATERIAL PROFILE SHEET	PROFILE # : UMAD-16-00 Status: PENDING	
Printed:	16 JUL	96		Sales Rep: 951 Kurtz, Kristina Acct Mgr: 759 McReynolds, Mar	

Additional Description

#### J. SPECIAL HANDLING INFORMATION

MSDS PROVIDED BY CUSTOMER. SAMPLE WAS TAKEN FOR PROFILE SCREEN. FORWARD ALL QUESTIONS TO MARC STRICKLER WCSS JOB# 96W011

GENERATOR CERTIFICATION

I hereby certify, as an authorized representative of the Generator named above, that BEI has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate.

If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing on the date listed above.

Signature

Marcie E. Daviner 77

RAC Env. Cockinnetor

1125196

Printed Name

Title

)ate

Starts : 21 JUN Expires: 31 MAY PROFILE # : UMAD -- 27-00 Status: PENDING Sales Rep: 951 Kurtz, Kristina GENERATOR'S WASTE MATERIAL PROFILE SHEET Printed: 16 JUL 96 Acct Mgr: 759 McReynolds, Mar A. GENERATOR SITE INFORMATION B. CUSTOMER ADDRESS: Generator # 14634 Customer # 20312 US ARMY DEPOT - UNATILLA EPA # ORD213820917 DAMES & MOORE 849 INTERNATIONAL DR #320 EXIT 167, ROUTE 84 ROUTE 84 Phone (541) 564-5294 Mark Daugherty LINTHICUM MD 21090 Contact HERMISTON OR 97838 SIC Codes: 9199 C. WASTE INFORMATION On File: MSDS No **Analysis** Sample No Waste Name: LOOSEPACK OIL BASE PAINT, STAINS, ADHESIVES, TARS, PETROLEUM DISTILLATES TO FUELS Process : old out dated paints, stains ect. D. PHYSICAL CHARACTERISTICS OF WASTE PhysStates L-Lig Top Color VARIES 3 Multi-Layered PH Range Lavers Mid Color Spec Grav 0.95 S-Sol FlashTest Open G-Slu Bot Color Free Lig % FlashRange <140 Info Provided by: Gen E. COMPOSITION OF WASTE PCRs NO Cyanides NO Phenolics NO Sulfides NO Chemical Min-Max% Range LOOSEPACK OIL BASE PAINT 100 F. METALS Arsenic Silver Zinc Lead Metals Test Method GEN Barium Hercury Nickel Copper Cadmium Selenium Thallium Chrome-6 Chromium OTHER METALS DDM Ign. Solid Shock Sensitive G. OTHER CHARACTERISTICS OF WASTE No Reactive No Dangerous When Wet No No Poisonous No Inhalation Hazard No Oxidizer No Corrosive **Vaste Vater** No Water Reactive Marine Pollution No Carcinogen No H. USE EPA / STATE WASTE IDENTIFICATION Exempt Yes Soil Dang/Haz Waste Yes Form Code B209 TSCA Reportable No DW / EHW NESHAPS DW Source Code A58 CERCLA OSHA/WISHA Origin Code Household Orgnc/Inorgnc 0 Debris **EPA Codes** 0001 State Codes **WT02** I. SHIPPING INFORMATION DOT Haz Mtri Yes DOT ID# UN1263 One Time Only DOT Shipping Name Waste Paint Related Material (Paints and Thinners) DOT Hazard Class Container Type DM Metal Drum Qty to Ship Now 1 SUB DOT Haz Class Projected Volume / Year

PKG II ERG [26] RQ 100

Additional Description OTHER SHIPPING NAMES MAY APPLY

	Starts : Expires:		96 97	GENERATOR'S WASTE MATERIAL PROFILE SHEET	PROFILE # : UMAD27-00 Status: PENDING
ļ	Printed:	16 JUL	96		Sales Rep: 951 Kurtz, Kristina Acct Mgr: 759 McReynolds, Mar

J. SPECIAL HANDLING INFORMATION

LOOSEPACK UMATILLA JOB #96W011, FORWARD ALL QUESTIONS TO MARC STRICKLER WCSS

GENERATOR CERTIFICATION

I hereby certify, as an authorized representative of the Generator named above, that BEI has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate.

If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing on the date listed above.

2 AUGITER TI Printed Name

# ATTACHMENT D Uniform Hazardous Waste Manifests

# mon demon .

# BURLINGTON ENVIRONMENTAL, INC. dba PHILIP ENVIRONMENTAL 1100 OAKESDALE AVE. S.W. - RENTON, WA 98055

(206) 227-0311

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		3. Generator's Name and Mailing Address U.S. ARMY  Exit 177	route 84	_	<u> </u>		anja serre en	Signatur dag (1900) Signatur dag					
	1 1	HERMISTON, 4. Generator's Phone (541) 564-5294-A	TN: MARK DAUG	HERTY		•	ailathaicu-	Francischen Ber					
- 1		5. Transporter 1 Company Name		US EPA ID Number				C. State Transporter's ID					
- 1		BEI TRANSPORTATION	WAR 000 001 -		Distin	ansporter a Phone	<u> 206                                    </u>	383=3044					
	П	7. Transporter 2 Company Name	8. US EPA ID Num	ber				a researching					
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ا ځ	П	Designated Facility Name and Site Address     Burlington Environmental, Inc.	10. US EPA ID Num	Der	C. 100	te Facility's IDea	CALCAID!	Habitatia tan					
₹Ⅱ	П	☐ 734 So. Lucile St Seattle, WA - (206) 762-3362 ☐ 1701 Alexander - Tacoma, WA - (206) 838-4774	WAD 000812909 WAD 020257949			The state of the s							
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	L	GENERATOR EMERGENCY TELEPHONE (206) 383-	3044	CERTIFIC.	ATE OF	DESTRUCTION/	DISPOSAL	L REQUIRED.					
	10	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the conter packed, marked, and labeled, and are in all respects in proper condition</li> </ol>											
		If I am a large quantity generator, I certify that I have a program in p practicable and that I have selected the practicable method of treatme											
		and the environment; OR, if I am a small quantity generator, I have in available to me and that I can afford.	nade a good faith effort to minimize m	y waste generati	on and s	elect the best waste	managen	nent method that is					
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SPORTER FAC-		3. Transporter 2 Acknowledgement of Receipt of Materials	Signature										
RTER FACT	19	Transporter 2 Acknowledgement of Receipt of Materials     Printed/Typed Name		xcept as noted	in Item 1	9.							

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

1100 OAKESDALE AVE. S.W. - RENTON, WA 98055 (206) 227-0311 10#96WOILA Form Approved. OMB No. 2050-0039. Reauthor 1. Generator's US EPA ID No. Manifest Document No. 2. Page 1 **UNIFORM HAZARDOUS** Information in the shaded areas is WASTE MANIFEST not required by Federal law 01RN21782091 A. "State Manifest Document Number (7) 2011: 3. Generator's Name and Mailing Address 4.5. Army Depot "" " "nodržiologi ati siminarini nini Exit 177 Route 84 Hermiston, OR 97838 B. State Generator's ID 4. Generator's Phone ( 54 ) and infrared sources polynoided are 5. Transporter 1 Company Name C, State Transporter's ID REI Transportation WAR.00000174 D. Transporter's Phone 104) 33 Transporter 2 Company Name US EPA ID Number E. State Transporter's ID \* 24 8. F. Transporter's Phone G. Stein Eachty of Donn or die 12: 000 Ha 9. Designated Facility Name and Site Address 10. US EPA ID Number Burlington Environmental, Inc. ☐ 734 So. Lucile St. - Seattle, WA - (206) 762-3362 WAD 000812909 Facility's Phone 341.75 ☐ 1701 Alexander - Tacoma, WA - (206) 838-4774 WAD 020257945 WAD 991281767 20245 77th Ave. - South Kent, WA - (206) 872-8030 206 872-8030 Have Strain 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers h-others: Туре No. Wt/Vol Weste No Material Not Regulated by D.O.T a. 46,000 60 Dm b. A T O R c d. J. Additional Descriptions for Materials Listed Abovers on K. Handling Codes for Westes Listed Above and Jabo THE TAX THE PROPERTY SERVICES TO CONTRIBUTE OF THE PROPERTY OF the set of the second of the s ende south of the second of th 15. Special Handling Instructions and Additional Information GENERATOR EMERGENCY TELEPHONE (36) 383-304 ☐ CERTIFICATE OF DESTRUCTION/DISPOSAL REQUIRED 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, rail or water according to applicable international and national gove If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Rrinted/Typed Name Month Dav Signature Year 11/12/21 101 LAUGHE1274 -: ( 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Day Year Month 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

EPA Form 8706-22 (Rev. 9-88) Previous editions are obsolete

Printed/Typed Name

Month Day

Year

1100 OAKESDALE AVE. S.W. - RENTON, WA 98055 (206) 227-0311 print or type designed for use on elite (12-pitch) typewriter.) 7.707 Form Approved. OMB No. 2050-0039. Reauthorized 2. Page 1 Manifest Information in the shaded areas is 1 Generator's US EPA ID No. UNIFORM HAZARDOUS Document No. not required by Federal law. of 1 ORDA13820917 **WASTE MANIFEST** FXIT 177 Route of Hermiston, OR 97 A.: State Manifest Document Number 372 (1982) 3. Generator's Name and Mailing Address U.S. CONTRACTOR FITTE STEED FOR THE POST OF THE B. State Generator's ID Second up and the results of the control o estimotopanade production seit C. State Transporter's ID US EPA ID Number 5. Transporter 1 Company Name Da Transportar's Phone (2061) 383-3044 .000001 Transpor US EPA ID Numbe Transporter 2 Company Name F. Transporter's Phone GaStata-Facility & Hamman Carte 188 (1974) and Facility & US EPA ID Number 9. Designated Facility Name and Site Address 10. **Burlington Environmental, Inc.** WAD 000812909 734 So. Lucile St. - Seattle, WA - (206) 762-3362 ☐ 1701 Alexander - Tacoma, WA - (206) 838-4774 ☐ 20245 77th Ave. - South Kent, WA - (206) 872-8030 ☐ Other: Haliffeling Progression polices has seen and the seen and WAD 020257945 WAD 99128176 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers The month Total Wt/Vol Waste No. 375 Туре Material Not Regulated by D.O.T DΜ ENER b. refrecht welte. CHE COMB CLASSE SALTS THE ă MATERIAL SERVICES d. K. Handling Codes fortWaster Listed Above stages of the code of th 3. Additional Descriptions for American Tassed Above descriptions for the Company of the Company 15. Special Handling Instructions and Additional Information CERTIFICATE OF DESTRUCTION/DISPOSAL REQUIRED GENERATOR EMERGENCY TELEPHONE (306) 383-3044 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, rail or water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Month Day Year Printed/Typed Name 96 17. Transporter 1 Acknowledgement of Receipt of Materials Year Month Dav Printed/Typed Name Signature 9 1110 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Signature Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Day Year Signature Printed/Typed Name EPA Form 8700/22 (Rev. 9-88) Previous editions are obsolete

BURLINGTON ENVIRONMENTAL, INC. dba PHILIP ENVIRONMENTAL

**TRANSPORTER #2** 

REPRODUCED FROM BEST AVAILABLE COPY

print or type Wo + 96WOIIA 1100 OAKESDALE AVE. S.W. - RENTON, WA 98055 (206) 227-0311 Form Approved, OMB No. 2050-0039. Reauthorized through 9-30 1. Generator's US EPA ID No. Manifest 2. Page 1 **UNIFORM HAZARDOUS** Information in the shaded areas is not required by Federal law. **WASTE MANIFEST** DRD21382091 A. State Manifest Document Number. 781 mo: 3. Generator's Name and Mailing Address 1.5. Army Depot CONTRACTOR PROGRAMMENT AND ADDRESS OF THE ADDRESS O B. State Generator's ID. maxen to crotevias ... ston, OR 97838 4. Generator's Phone ( 54/ Commission Commission C, State Transporter's ID Transporter 1 Company Name US EPA ID Number 0AR00000174 D. Transporter's Phone Aug 241 enterior en la Transpor 7. Transporter 2 Company Name US EPA ID Number E State Transporter 8 10 / 2011 # posques Accurum: Transporter's Phone G. State Facility and the Contract of the Cont 9. Designated Facility Name and Site Address US EPA ID Number 10. Burlington Environmental, Inc. ☐ 734 So. Lucile St. - Seattle, WA - (206) 762-3362 ☐ 1701 Alexander - Tacoma, WA - (206) 838-4774 WAD 000812909 WAD 020257945 20245 77th Ave. - South Kent, WA - (206) 872-8030 WAD 991281767 From 1872 Mg 03 D minutes non-11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Total No. Type Quantity - Waste No. Material Not Regulated by DOT

Material Not Augulated by DO.T 32 DM GENERATOR b. 15,000 14 DM C. THE PROPERTY OF AL LEGALER IS d. mad point = 600 Cres contac Vice in 196 230 Anticoniano A SANGRIONAL DESCRIPTIONS FOR Materials Timed Notice 1, a challeng from the control of the support of the suppo K. Handling Codes for Waste Selection and the selection of the selec to the state of th The first state of the state of GENERATOR EMERGENCY TELEPHONE 306 ☐ CERTIFICATE OF DESTRUCTION/DISPOSAL REQUIRED 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, rail or water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature Month Dav Year 1.2162 6 ينتارس ومراه ومتراكز 14 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature? 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete

Printed/Typed Name

Marie H

Signature

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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1100 OAKESDALE AVE. S.W. - RENTON, WA 98055 Form Approved, OMB No. 2050-0039, Reauthor 2. Page 1 Manifest Information in the shaded areas is 1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** not required by Federal law. of / ORD 213820917 WASTE MANIFEST A. State Manifest Document Number (15) (16) 3. Generator's Name and Mailing Address Army Depot ्र प्रतिकारिक स्थापिक स Ex:+177 Rout 84 B: State Generator's ID request to a consequence of Hermiston, OR 97838 The state of the s 4. Generator's Phone ( 54) 1564-5294 5. Transporter 1 Company Name D. Transporter's Phone (2004 x383x3044 000 00 KUNSPOR E. State Transporter's ID US EPA ID Number 8. Transporter 2 Company Name F. Transporter's Phone GoState Facility's ID rowns 11 puto \$59-007 64 mo 3 AC US EPA ID Number 10. 9. Designated Facility Name and Site Address Burlington Environmental, Inc. WAD 000812909 734 So. Lucile St. - Seattle, WA - (206) 762-3362 WAD 020257945 H. Eachty's Phone and and the amount of the ☐ 1701 Alexander - Tacoma, WA - (206) 838-4774 WAD 991281767 8030 may lower or horizon 20245 77th Ave. - South Kent, WA - (206) 872-8030 1206 277 A State of the second of the s 12. Containers 13. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Wt∕Vol Туре Quantity Material Not Regulated by D.O.T 46,000 P Om ALLMAD-6 b. C. Ó Ř d. J. Additional Descriptions for Water this 19sted Abovers in an analysis and the Color of the Col 15. Special Handling Instructions and Additional Information CERTIFICATE OF DESTRUCTION/DISPOSAL REQUIRED GENERATOR EMERGENCY TELEPHONE 206) 383-3044 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified. packed, marked, and labeled, and are in all respects in proper condition for transport by highway, rail or water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Year Month Day Signature Printed/Typed Name 13 FINEIC ) Buche 177 17. Transporter 1 Acknowledgement of Receipt of Materials Day Yea Month Printed/Typed Name 08113196 WOOLE 18. Transporter 2 Acknowledgement of Receipt of Materials Day Year Month Printed/Typed Name 19. Discrepancy Indication Space

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

Printed/Typed Name WMM

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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1100 OAKESDALE AVE. S.W. - RENTON, WA 98055 (206) 227-0311

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	16	GENERATOR EMERGENCY TELEPHONE  GENERATOR'S CERTIFICATION: 1 hereby declare packed, marked, and labeled, and are in all respects in	that the contents o	of this consignment are fully a	nd accurately de	scribed ab	DESTRUCTION/I	oing name	and are classified,
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Ţ	17	7. Transporter 1 Acknowledgement of Receipt of Mar	tenals			-			
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Y		Printed/Typed Name	2	Signature	14/16	1.11	a(412)	MC	onth Day Year

# BURLINGTON ENVIRONMENTAL, INC. dba PHILIP ENVIRONMENTAL 1100 OAKESDALE AVE. S.W. - RENTON, WA 98055

(206) 227-0311

Please print or type	1100 04	AKESDALE AVE (206	E. S.W REN ) 227-0311	10N, WA 98	USS			122	:26	
Form designed for use on elite (12-pitch) ty  UNIFORM HAZA WASTE MANI	RDOUS 1. G	enerator's US EPA IC	_	Manifest Document No.	2. Pag	,		haded area		
Generator's Name and Mailin	- Address - 44 d	10238209 1my Depot		16000	A. State Manifest Document Number or action in American Comment Number or action in the American Comment Number of N					
4. Generator's Phone ( 541	1564-5754	AHn: 1	838 NorK Daug	herty			ಾಗಾಗ್ರೆಗೆ, ಕೃ	raniolist sa	5 00	
5. Transporter 1 Company Name BET Trunspor	tation	- · 6.	US EPA ID (1)		D, Jra	te Transporter's II	2062	163-30	44	
Transporter 2 Company Name     Designated Facility Name and		10.	US EPA ID N		F, Tra	te Transporter's To resporter's Phone te Facility's ID	- 1 to 1	<u> </u>	7 <u>2 1</u>	
Burlington Environmental, Inc.    734 So. Lucile St Seattle, W.   1701 Alexander - Tacoma, W.   20245 77th Ave South Kent   Other:	/A - (206) 762-3362 A - (206) 838-4774	10.	WAD 000812 WAD 020267 WAD 991281	909 <del>04</del> 5	H. Fac			bee bould		
11. US DOT Description (Includi				12. Con	tainers Type	13. Total Quantity	14. Unit	e islamor orthodist	d and	
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GENERATOR EMERGENCY						DESTRUCTION/E				
16. GENERATOR'S CERTIFICATE packed, marked, and labeled, an If I am a large quantity generate practicable and that I have select and the environment; OR, if I are available to me and that I can af	d are in all respects in proper or, I certify that I have a prog cted the practicable method on a small quantity generator,	r condition for transport gram in place to reduce of treatment, storage, o	by highway, rail or w e the volume and too or disposal currently a	ater according to ap cicity of waste gene available to me whice	plicable in rated to the h minimiz	nternational and nat the degree I have dites the present and	ional gover etermined t future thre	mment regul to be econo- at to human	lations. mically health	
Printed/Typed Name	1146-274		Signature	ک رے			Mo	onth Day	Yea	
17. Transporter 1 Acknowledgeme	<del></del>		Signature	<i>'</i>			Mo	inth Day	Yea Yea	
18. Transporter 2 Acknowledgement	ent of Receipt of Materials		Signature				Mo	nth Day	Yea	
19. Discrepancy Indication Space					<u>,</u>		<u> </u>		<u> </u>	
20. Facility Owner or Operator: Co	artification of receipt of haz	ardous materials cov	ered by this manife	st except as noted	in Item 1					
Printed/Typed Name		5	Signature :				Mo	nth Day	Year	

1100 OAKESDALE AVE. S.W. - RENTON, WA 98055
(206) 227-0311

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<u>(F</u>	om	n designed for use on elite (12-pitch) typewriter.)			F		oved. OMB No. 2050-	0039. Rea	uthorized thro	ugh 9-30-9	
1		UNIFORM HAZARDOUS	erator's US EPA ID No. 0.2138209/7	60	Manifest turnent No.	2. Pa			shaded are ederal law.	eas is	
	[:	3. Generator's Name and Mailing Address	ny Doort			A. St	ate Manifest Docu				
		764-5294 Ex.+177	Rowle 84	Ande	Lest				in an an		
		77	OR 97838	1 1		B. St	ate Generator's ID				
Ш	Ľ	4. Generator's Phone (54) Herwistor	AH	11: Piles	<u> </u>		5		ڪ رماڻ <sup>ي</sup> . ايا	70 (20)	
		5. Transporter 1 Company Name		ID Number	~		ate Transporter's I			ver i	
Ш	L	BEL Transportation	WAROCOC	20/14	5		ansporters Phone				
州	7	7. Transporter 2 Company Name	8. US EPA	ID Number			ate Transporter's I			Michella 10	
di	$\perp$						insporter's Phone				
91	18	Designated Facility Name and Site Address     Burlington Environmental, Inc.	10. US EPA	ID Number		G.↑St	ate Facility's IO nu	ne v zon	d-Lewisters.	modia!	
		734 So. Lucile St Seattle, WA - (206) 762-3362		00812909 20257945		11.5	See to a carrie	<u> </u>	· 6	Z	
	1.	☐ 1701 Alexander - Tacoma, WA - (206) 838-4774 ☐ 20245 77th Ave South Kent, WA - (206) 872-8030		91281767	1	15.54	cility's Phone on the	B'TT HE TO	ions ogga	in a second	
Δl	H	Other:			12. Con	120	6/0/20	المحوية	Colone	-E1 -E 11	
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$\Pi$			_								
Ш		GENERATOR EMERGENCY TELEPHONE 200 38	3-3044		CERTIFIC	ATE OF	DESTRUCTION	DISPOSA	L REQUIRE	ED	
Ш	16	<ol><li>GENERATOR'S CERTIFICATION: 1 hereby declare that the c packed, marked, and labeled, and are in all respects in proper cor</li></ol>									
		If I am a large quantity generator, I certify that I have a program			-			_	-		
		practicable and that I have selected the practicable method of tro	eatment, storage, or disposal curr	ently available	to me whic	h minimiz	es the present and	future thre	eat to humai	n health	
Ш		and the environment; OR, if I am a small quantity generator, I have available to me and that I can afford.	ave made a good faith effort to m	inimize my wa	iste generat	on and s	elect the best waste	manage	ment method	that is	
		Printed/Typed Name.	Signature			<u> </u>	4	М	onth Day	Year	
7		Mysocial Deginal 12	1111	٠	$\supset$	1 .	<del></del>	;	I 14	1	
I	17	7. Transporter 1 Acknowledgement of Receipt of Materials				_ a'	``				
Ä	7	Printed/Typed Name	Signature	سسمر				Λ4	onth Pay	Year	
S	(	Dary luggic			ويتضم	R	٠.			70	
P	18.	Transporter 2 Acknowledgement of Receipt of Materials	``	\							
RANSPORTER		Printed/Typed Name	Signature					Mo	onth Day	Year	
	19.	Discrepancy Indication Space	· · · · · · · · · · · · · · · · · · ·							•	
FAC-L	20.	. Facility Owner or Operator: Certification of receipt of hazard	ous materials covered by this r	nanifest exce	pt as noted	in Item	19.	· · · · · · · · · · · · · · · · · · ·			
+		Salar Salar								- 1	
ΙÝ		Printed/Typed Name	Signature		<del></del>			Mc	onth Day	Year	
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EPA F	om	m 8700-22 (Rev. 9-88) Previous editions are obsolete.	!								

#### ATTACHMENT E

Certificates of Treatment, Recycling, and/or Disposal

Date: 01/21/97

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA ID: WAD991281767

20245 77TH AVENUE SOUTH KENT WA 98032

Generator: 14634 - US ARMY DEPOT - UMATILLA

Manifest: 60001

EPA 10: ORD213820917 Waste Receipt #: KNI-34473

Date Received: 08/12/96

ine	Line Profile	Material Description	Treatment/Disposal Description	Final Treatment/ Disposal Facility	Final BEI Manifest PgLn De	Patn	Final Date/ Date Shipped
<b>1</b>	1A UMAD-4-00	MATERIAL NOT REGULATED BY DOT	M111 STABILIZATION/CHEMICAL FIXATION/CEMENT	COLUMBIA RIDGE LANDFILL	08618-KNT	. ∠	09/18/96
!				COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL	08638-KNT 08594-KNT 08612-KNT 08738-KNT	<b>4444</b>	09/22/96 09/13/96 09/17/96 10/07/96
8	18 UMAD-6-00	MATERIAL NOT REGULATED BY DOT	M141 STORAGE/TRANSFER	COLUMBIA RIDGE LANDFILL	08435-KNT 1A	4	

Name: Jennifer Wisniewski

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA ID: WAD991281767

20245 77TH AVENUE SOUTH KENT 98032

Generator: 14634 - US ARMY DEPOT - UMATILLA

EPA 10: 0R0213820917

Manifest: 61023

Waste Receipt #: KNI-35667

Date Received: 09/20/96

Final BEI Final Date/ Manifest Paln Date chirocal	naddille asset	09/56/96	09/26/96 10/07/96
Patn	,	4	14 4
Final BEI Manifest		08659-KNT 1A	08657-KNT 08738-KNT
Final Treatment/ Disposal Facility		COLUMBIA RIDGE LANDFILL	COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL
Treatment/Disposal Description		M111 STABILIZATION/CHEMICAL FIXATION/CEMENT	
Material Description		MATERIAL NOT REGULATED BY DOT	
Line Profile		IA UMAD-4-00	

Name: Jennifer Wisniewski

front Washing Specialist Signature :

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA ID: WAD991281767

20245 77TH AVENUE SOUTH KENT WA 98032

EPA 1D: 0RD213820917

Generator: 14634 - US ARMY DEPOT - UMATILLA

Manifest: 60994

Waste Receipt #: KNT-35689

Date Received: 08/15/96

Final Treatment/ Disposal Facility Treatment/Disposal Description Material Description Line Profile

Final BEI Final Date/ Manifest PgLn Date Shipped 10/04/96 10/04/96 7 ₹ 08722-KNT 08722-KNT COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL M111 STABILIZATION/CHEMICAL FIXATION/CEMENT M141 STORAGE/TRANSFER MATERIAL NOT REGULATED BY DOT MATERIAL NOT REGULATED BY DOT UMAD-4-00 UMAD-6-00 **8** 4

Name: Jennifer Wisniewski

Signature: formitted Warmensolin

Title: Waste Tracking Specialist

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA ID: WAD991281767

20245 77TH AVENUE SOUTH KENT WA 98032

Generator: 14634 - US ARMY DEPOT - UMATILLA

Manifest: 60000

Waste Receipt #: KNT-34565

Date Received: 08/15/96 EPA ID: 0RD213820917

Li	Line Profile	Material Description	Treatment/Disposal Description	Final Treatment/ Disposal Facility	Final BEI Manifest P	Pgln	Final Date/ Date Shipped
1 4	A UMAD-6-00	MATERIAL NOT REGULATED BY DOT	M111 STABILIZATION/CHEMICAL FIXATION/CEMENT	COLUMBIA RIDGE LANDFILL	08447-KNT	1A	08/17/96
8	3 UMAD-4-00	MATERIAL NOT REGULATED BY DOT	M111 STABILIZATION/CHEMICAL FIXATION/CEMENT	COLUMBIA RIDGE LANDFILL	08447-KNT	4.	08/17/96
	C UMAD-16-00	WASTE CAUSTIC ALKALI LIQUIDS, N.O.S. (LIME, CALCIUM SULFATE) (CALCIUM SULFATE, LIME)	M121 NEUTRALIZATION ONLY	TO TANK TAC-603			09/23/96
-			M077 CHEMICAL PRECIPITATION	BEI-TREAT/DISCHARGE TO POTU OPEN TRACKING AT KNT OPEN TRACKING AT KNT	12764-TAC 12837-TAC	44	09/30/96 09/30/96
			M121 NEUTRALIZATION ONLY	OPEN TRACKING AT KNT COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL	12851-TAC 12849-TAC 12871-TAC	<u> </u>	10/31/96 10/24/96 11/07/96
				COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL COLUMBIA RIDGE LANDFILL CHEM WASTE MGMT OF NORTHWEST	12872-1AC 12899-1AC 12900-1AC 12913-1AC	4444	11/18/96 12/02/96 12/03/96 12/05/96
			MO77 CHEMICAL PRECIPITATION	COLUMBA KIDGE LANDFILL TO TANK KNI-51 TO TANK TAC-902 COLUMBIA RIDGE LANDFILL	12923-TAC 08862-KNT	¥ ¥	12/17/96 09/20/96 09/26/96 10/25/96
			M121 NEUTRALIZATION ONLY	TO TANK TAC-56 TO TANK TAC-56 TO TANK TAC-53 OPEN TRACKING AT KNT OPEN TRACKING AT KNT CHEM WASTE MGMT OF NORTHWEST CHEM WASTE MGMT OF NORTHWEST CHEM WASTE MGMT OF NORTHWEST	12739-1AC 12750-1AC 12782-1AC 12794-1AC 12807-1AC	4444	09/18/96 09/27/96 09/20/96 09/23/96 10/26/96
			MO77 CHEMICAL PRECIPITATION	ASHGROVE CEMENT-FOREMAN ASHGROVE CEMENT-FOREMAN ASHGROVE CEMENT-FOREMAN ASHGROVE CEMENT-FOREMAN CHEM WASTE MGMT OF NORTHWEST	12790-170 12887-170 12891-170 12904-170 08505-KNI	44444	10/17/96 11/19/96 11/21/96 12/10/96 08/29/96
	1D UMAD27-00	OO WASTE PAINT RELATED MATERIAL (PAINTS AND THINNERS)	MO61 FUEL BLENDING	TO TANK 1212			10/25/96

Name: Jennifer Wisniewski

Signature: Service (1) 1 Signature (1) Haste Tracking Specialist

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations. CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL Date: 01/21/97

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA ID: WAD991281767

20245 77TH AVENUE SOUTH KENT 98032

Generator: 14634 - US ARMY DEPOT - UMATILLA

Manifest: 60992

Waste Receipt #: KNT-34563

EPA ID: 0RD213820917

Date Received:

08/15/96

Treatment/Disposal Description Material Description Line Profile

MATERIAL NOT REGULATED BY DOT 1A UMAD-4-00

COLUMBIA RIDGE LANDFILL

M141 STORAGE/TRANSFER

Final Treatment/ Disposal Facility

Final BEI Final Date/ Manifest PgLn Date Shipped

08/16/96

4

08440-KNT

Name: Jennifer Wisniewski

franky ( ) Dangarak Title: Waste Tracking Specialist Signature :

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

acility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA ID: WAD991281767 Facility:

20245 77TH AVENUE SOUTH KENT 98032

EPA ID: 0RD213820917

Generator: 14634 - US ARMY DEPOT - UMATILLA

Final BEI Final Date/ Manifest PgLn Date Shipped

Manifest: 60991

Waste Receipt #: KNT-34562

Date Received: 08/15/96

UMAD-6-00 7

Line Profile

MATERIAL NOT REGULATED BY DOT

Material Description

4 08442-KNT

08/16/96

M111 STABILIZATION/CHEMICAL FIXATION/CEMENT

Treatment/Disposal Description

COLUMBIA RIDGE LANDFILL

Final Treatment/ Disposal Facility

Title: Waste Tracking Specialist

Name: Jennifer Wisniewski

Signature :

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA ID: WAD991281767

20245 77TH AVENUE SOUTH KENT WA 98032

Generator: 14634 - US ARMY DEPOT - UMATILLA

EPA ID: ORD213820917

Manifest: 60993

Waste Receipt #: KNT-34561

Date Received:

08/15/96

nal Date/	peddius at	8/16/96	08/30/96	8/16/06	0, 50, 50
Fin PgLn Dat				1A 0	•
Final BEI Final Date/	169111611	08441-KNT 1A	08512-KNT	08441-KNT 1A 08/16/06	
Final Treatment/ Disposal Facility		COLUMBIA RIDGE LANDFILL	COLUMNIA KIDGE LANDFILL	COLUMBIA RIDGE LANDFILL	
Treatment/Disposal Description		M141 STORAGE/TRANSFER		M141 STORAGE/TRANSFER	
Material Description		MATERIAL NOT REGULATED BY DOT		MATERIAL NOT REGULATED BY DOT	
Line Profile	4.	1A UMAU-4-00		18 UMAD-6-00	

Name: Jennifer Wisniewski

Signature :

Formiles (Dannewson Title: Waste Tracking Specialist

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA 10: WAD991281767

20245 77TH AVENUE SOUTH KENT WA 98032

Generator: 14634 - US ARMY DEPOT - UMATILLA

EPA 1D: 0RD213820917

Manifest: 60990

Waste Receipt #: KNT-34564

Date Received: 08/15/96

Material Description UMAD-6-00 Line Profile 4

MATERIAL NOT REGULATED BY DOT

M111 STABILIZATION/CHEMICAL FIXATION/CEMENT

Treatment/Disposal Description

COLUMBIA RIDGE LANDFILL

Final Treatment/ Disposal Facility

Final BEI Final Date/ Manifest PgLn Date Shipped

08/11/96

1

08446-KNT

Title: Waste Tracking Specialist

Name: Jennifer Wisniewski

Signature :

CERTIFICATE OF TREATMENT, RECYCLING, AND/OR DISPOSAL

This is to certify that the following waste material was received, managed, and treated in compliance with all applicable Federal and Washington State Laws and regulations.

Facility: BURLINGTON ENVIRONMENTAL, INC. KENT FACILITY EPA 1D: WAD991281767

20245 77TH AVENUE SOUTH KENT 98032

Generator: 14634 - US ARMY DEPOT - UMATILLA

EPA 10: 0R0213820917

Manifest: 60989

Waste Receipt #: KNT-34559

Material Description Line Profile

UMAD-6-00

4

Treatment/Disposal Description M111 STABILIZATION/CHEMICAL FIXATION/CEMENT MATERIAL NOT REGULATED BY DOT

Signature :

Name: Jennifer Wisniewski

08/14/96 Date Received:

Final Treatment/ Disposal Facility

08435-KNT

COLUMBIA RIDGE LANDFILL

₹

Title: Waste Tracking Specialist

Final Date/ PgLn Date Shipped

Final BEI Manifest

08/15/96

## ATTACHMENT F

Inventory of Drums Classified As Non-Hazardous and Disposed of On Post at Site 12 (Inactive Landfills)

ATTACHMENT F
Dames & Moore Generated Drums (SRI) Disposed of at Site 12
11/26/96

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM	Comments
1	69	69-1	1	9/26/92	0-15	cuttings	S
2	69	69-1	2 -	9/26/92	15-30	cuttings	S
3	69	69-1	3	9/26/92	30-40	cuttings	S
4	69	69-1	4	9/26/92	40-60	cuttings	S
5	69	69-1	5	9/26/92	60-70	cuttings	S
6	69	69-1	6	9/26/92	70-80	cuttings	S
7	70	70-1	1	9/23/92	0-15	cuttings	S
8	70	70-1	2	9/23/92	15-30	cuttings	S
9	70	70-1	3	9/23/92	30-45	cuttings	S
10	70	70-1	4	9/23/92	45-60	cuttings	S
11	70	70-1	5	9/23/92	60-75	cuttings	S
12	70	70-1	6	9/23/92	75-90	cuttings	S
13	70	70-1	7	9/23/92	90-105	cuttings	S
14	70	70-2	1	9/24/92	0-15	cuttings	S
15	70	70-2	2	9/24/92	15-30	cuttings	S
16	70	70-2	3	9/24/92	30-45	cuttings	S
17	70	70-2	4	9/24/92	45-60	cuttings	S
18	70	70-2	5	9/24/92	60-75	cuttings	S
19	70	70-2	6	9/24/92	75-90	cuttings	S
20	70	70-2	7	9/24/92	90-100	cuttings	S
21	77	77-1	1	9/25/92	0-20	cuttings	S
22	77	77-1	2	9/25/92	20-40	cuttings	S
23	77	77-1	3	9/25/92	40-60	cuttings	S
24	77	77-1	4	9/25/92	60-80	cuttings	S
25	77	77-1	5	9/25/92	60-80	cuttings	S
26	77	<i>77-</i> 1	6 .	9/25/92	80-100	cuttings	S
27	97	UST 101 (STA-34,35)	2	9/21/93	0-8	Soil Cuttings	S
28	97	UST 101 (STA-32,33)	17	9/21/93	0-8	Soil Cuttings	S
29	97	UST 101 (STA-37,38)	9	9/17/93	0-10	Soil Cuttings	S
30	97	UST 102 (STA-36)	18	9/17/93	0-10	Soil Cuttings	S
31	97	UST 11 (STA-1,3)	6	9/21/93	0-10	Soil Cuttings	S
32	97	UST 11 (STA 2,4)	20	9/21/93	0-10	Soil Cuttings	S
33	97	UST 18 (STA 9,10)	27	9/20/93	0-10	Soil Cuttings	S
34	97	UST 18 (STA 11,12)	31	9/19/93	0-10	Soil Cuttings	S
35	97	UST 21 (STA-17,18)	21	9/20/93	0-10	Soil Cuttings	S
36	97	UST 22,23 (STA-19)	26	9/19/93	0-10	Soil Cuttings	S
37	97	UST 22,23 (STA-20)	29	9/20/93	0-10	Soil Cuttings	S
38	97	UST 23 (STA-22)	23	9/20/93	0-10	Soil Cuttings	S
39	97	UST 25 (STA-24,26)	1	9/21/93	0-10	Soil Cuttings	S
40	97	UST 25 (STA-25,27)	5	9/21/93	0-10	Soil Cuttings	S
41	98	Evap. Pond # 2	1	9/17/92	•	Sand	S
42	98	Evap. Pond # 2	2	9/28/92	-	Sand	S
43	98	Evap. Pond #2	3	9/28/92	-	Sand	S
44	98	Evap. Pond # 2	4	9/28/92	•	Sand	S
45	98	Evap. Pond # 2	5	9/28/92	-	Sand	S
46	98	Evap. Pond # 2	6	9/28/92	-	Sand	S
47	98	Evap. Pond # 2	7	9/29/92	•	Sand	S
48	98	Evap. Pond # 2	8	9/29/92	-	Sand	S
49	98	Evap. Pond # 2	9	9/28/92	-	Sand	S
50	98	Evap. Pond # 2	10	9/28/92	-	Sand	S
51	98	Evap. Pond # 2	11	9/28/92	-	Sand	Š
52	98	Evap. Pond # 2	12	9/28/92	-	Sand	S
53	98	Evap. Pond # 2	13	9/28/92	-	Sand	s
54	98	Evap. Pond # 2	14	9/28/92	_	Sand	S
55	98	Evap. Pond # 2	15	9/30/92	•	Sand	s
56	98	Evap. Pond # 2	16	9/30/92	-	Sand	s
		•				·-	-

#### ATTACHMENT F (cont'd)

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM	Comments
57	98	Evap. Pond # 2	17	9/29/92	•	Sand	S
58	98	Evap. Pond # 2	18	9/29/92	-	Sand	S
59	98	Evap. Pond # 2	19	9/29/92	-	Sand	S
60	98	Evap. Pond # 2	20	9/30/92	-	Sand	S
61	98	Evap. Pond # 2	21	9/29/92	-	Sand	S
62	98	Evap. Pond # 2	22	9/29/92	-	Sand	S
63	98	Evap. Pond # 2	23	9/29/92	<b>-</b> ,	Sand	S
64	98	Evap. Pond # 2	24	9/29/92	-	Sand	S
65	98	Evap. Pond # 2	25	9/29/92	-	Sand	S
66	98	Evap. Pond # 2	26	9/29/92	•	Sand	s
67	98	Evap. Pond # 2	27	9/28/92	•	Sand	s
68	98	Evap. Pond # 2	28	9/29/92	-	Sand	S
69	98	Evap. Pond # 2	29	9/28/92	-	Sand	S
70	98	Evap. Pond # 2	30	9/28/92	-	Sand	S
71	98	Evap. Pond # 2	31	9/30/92	-	Sand	S
72	98	Evap. Pond # 2	32	9/29/92	-	Sand	S
73	98	Evap. Pond # 2	33	9/29/92	-	Sand	S
74	98	Evap. Pond # 2	34	9/29/92	-	Sand	S
75	98	Evap. Pond # 2	35	9/28/92	-	Sand	S
76	98	Evap. Pond # 2	36	9/29/92	-	Sand	S
77	98	Evap. Pond # 2	37	9/28/92	-	Sand	S
78	98	Evap. Pond # 2	38	9/30/92	-	Sand	S
79	98	Evap. Pond # 2	39	9/30/92	-	Sand	S
80	98	Evap. Pond # 2	40	9/28/92	-	Sand	S
81	98	Evap. Pond # 2	41	9/30/92	-	Sand	S
82	98	Evap. Pond # 2	42	9/30/92	-	Sand	S
83	98	Evap. Pond # 2	43	9/28/92	-	Sand	S
84	98	Evap. Pond # 2	44	9/30/92	-	Sand	S
85	98	Evap. Pond # 2	45	9/29/92	-	Sand	S
86	98	Evap. Pond # 2	46	9/29/92	-	Sand	S
87	98	Evap. Pond # 2	47	9/29/92	-	Sand	S
88	98	Evap. Pond # 2	48	9/29/92	•	Sand	S
89	98	Evap. Pond # 2	49	9/28/92	-	Sand	S
90	98	Evap. Pond # 2	50	9/30/92	-	Sand	S
91	98	Evap. Pond # 2	51	9/30/92	•	Sand	S
92	98	Evap. Pond # 2	52	9/28/92	-	Sand	S
93	98	Evap. Pond # 2	53	9/29/92	-	Sand	S
94	98	Evap. Pond # 2	54	9/28/92	•	Sand	S
95	98	Evap. Pond # 2	55	9/28/92	-	Sand	S
96	98	Evap. Pond # 2	56	9/29/92	-	Sand	S
97	98	Evap. Pond # 2	57	9/29/92	-	Sand	S
98	98	Evap. Pond # 2	58	9/28/92	•	Sand	S
99	98	Evap. Pond # 2	59	9/28/92	-	Sand	S
100	98	Evap. Pond # 2	60	9/28/92	-	Sand	S
101 102	98 98	Evap. Pond # 2 Evap. Pond # 2	61	9/28/92	-	Sand	S
103	98	Evap. Pond # 2	62 63	9/30/92	-	Sand	S
104	98	Evap. Pond # 2	64	9/30/92	•	Sand	S
105	98	Evap. Pond # 2	65	9/28/92	•	Sand	S
106	98	Evap. Pond # 2		9/28/92	•	Sand	S
107	98	•	66 67	9/30/92	•	Sand	S
107	98	Evap. Pond # 2 Evap. Pond # 2	67 68	9/30/92	•	Sand	S
108	98 98	•		9/29/92	•	Sand	S
110	98 98	Evap. Pond # 2	69 70	9/28/92	•	Sand	S
		Evap. Pond # 2	70 71	9/30/92	•	Sand	S
111	98	Evap. Pond # 2	71 72	9/30/92	-	Sand	S
112	98	Evap. Pond # 2	72 73	9/30/92	-	Sand	S
113	98	Evap. Pond # 2	73 74	9/30/92	-	Sand	S
114 115	98	Evap. Pond # 2	74 75	9/30/92	•	Sand	S
115 116	98	Evap. Pond # 2	75 76	9/28/92	•	Sand	S
116 117	98	Evap. Pond # 2	76 77	9/30/92	•	Sand	S
117	98	Evap. Pond # 2	77	9/29/92	•	Şand	S·

#### ATTACHMENT F (cont'd)

	SITE ID	DRUM LABEL	DRUM#	DATE ON DRUM	DEPTH (FT)	DESCRIPTION ON DRUM	Comments
118	98	Evap. Pond # 2	78	9/30/92	•	Sand	S
119	98	Evap. Pond # 2	79	9/30/92	-	Sand	S
120	98	Evap. Pond # 2	80	9/30/92	-	Sand	S
121	98	Evap. Pond # 2	81	9/29/92	-	Sand	s
122	98	Evap. Pond # 2	82	9/29/92	-	Sand	S
123	98	Evap. Pond # 2	83	9/28/92	-	Sand	S
124	98	Evap. Pond # 2	84 -	9/28/92		Sand	S
125	98	Evap. Pond # 2	85	9/29/92	-	Sand	S
126	98	Evap. Pond # 2	86	9/29/92	-	Sand	S
127	98	Evap. Pond # 2	87	9/28/92	•	Sand	s
128	98	Evap. Pond # 2	88	9/29/92 9/28/92	-	Sand	s
129 130	98 98	Evap. Pond # 2 Evap. Pond # 2	89 90	9/29/92	-	Sand Sand	S
131	98	Evap. Pond # 2	91	9/29/92	-	Sand	S
132	98	Evap. Pond # 2	92	9/29/92	<u>-</u>	Sand	s s
133	98	Evap. Pond # 2	93	9/29/92	•	Sand	S
134	98	Evap. Pond # 2	94	9/29/92	_	Sand	S
135	98	Evap. Pond # 2	95	9/29/92	_	Sand	S
136	98	Evap. Pond # 2	96	9/29/92	<u>-</u>	Sand	S
137	98	Evap. Pond # 2	97	9/29/92	_	Sand	s
138	98	Evap. Pond # 2	98	9/28/92	_	Sand	S
139	98	Evap. Pond # 2	99	9/29/92	-	Sand	s
140	98	Evap. Pond # 2	100	9/29/92	-	Sand	S
141	98	Evap. Pond # 2	101	9/29/92	-	Sand	S
142	98	Evap. Pond # 2	102	9/29/92	-	Sand	S
143	98	Evap. Pond # 2	103	9/28/92	•	Sand	s
144	98	Evap. Pond # 2	104	9/28/92	-	Sand	S
145	98	Evap. Pond # 2	105	9/28/92	•	Sand	S
146	98	Evap. Pond # 2	106	9/28/92	-	Sand	S
147	98	Evap. Pond # 2	107	9/28/92	•	Sand	S
148	98	Evap. Pond # 2	108	9/28/92	-	Sand	S
149	98	Evap. Pond # 2	109	9/28/92	-	Sand	S
150	98	Evap. Pond # 2	110	9/29/92	-	Sand	S
151	98	Evap. Pond # 2	111	9/28/92	-	Sand	S
152	98	Evap. Pond # 2	112	9/28/92	-	Sand	S
153	98	Evap. Pond # 2	113	9/28/92	•	Sand	S
154	98	Evap. Pond # 2	114	9/28/92	-	Sand	S
155	98 98	Evap. Pond # 2	115	9/29/92	•	Sand	S
156 157	98	Evap. Pond # 2 Evap. Pond # 2	116 117	9/28/92 9/29/92	-	Sand	S
158	98	Evap. Pond # 2	118	9/28/92	- -	Sand Sand	S
159	98	Evap. Pond # 2	119	9/28/92	<u>-</u>	Sand	S S
160	98	Evap. Pond # 2	120	9/28/92	_	Sand	S
161	98	Evap. Pond # 2	121	9/28/92		Sand	S
162	98	Evap. Pond # 2	122	9/29/92	-	Sand	s
163	98	Evap. Pond # 2	123	9/28/92	-	Sand	S
164	98	Evap. Pond # 2	124	9/28/92	•	Sand	S
165	98	Evap. Pond # 2	125	9/29/92	-	Sand	S
166	98	Evap. Pond # 2	126	9/29/92	-	Sand	S
167	98	Evap. Pond # 2	127	9/29/92	-	Sand	S
168	98	Evap. Pond # 2	128	9/29/92	-	Sand	S
169	98	Evap. Pond # 2	129	9/29/92	-	Sand	S
170	98	Evap. Pond # 2	130	9/29/92	-	Sand	s
171	98	Evap. Pond # 2	131	9/29/92	-	Sand	s
172	98	Evap. Pond # 2	132	9/29/92	-	Sand	s
173	98	Evap. Pond # 2	133	9/29/92	-	Sand	s
174	98	Evap. Pond # 2	134	9/29/92	-	Sand	S
175	98	Evap. Pond # 2	135	9/28/92	-	Sand	S
176	98	Evap. Pond # 2	136	9/29/92	-	Sand	S
177	98	Evap. Pond # 2	137	9/28/92	•	Sand	S
178	98	Evap. Pond # 2	138	9/29/92	-	Sand	S

#### ATTACHMENT F (cont'd)

179       98       Evap. Pond # 2       139         180       98       Evap. Pond # 2       140         181       98       Evap. Pond # 2       141         182       98       Evap. Pond # 2       142         183       98       Evap. Pond # 2       143         184       98       Evap. Pond # 2       144         185       98       Evap. Pond # 2       145         186       98       Evap. Pond # 2       146         187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       158         199       9	9/29/92 9/29/92 9/29/92 9/29/92		Sand Sand	S
181       98       Evap. Pond # 2       141         182       98       Evap. Pond # 2       142         183       98       Evap. Pond # 2       143         184       98       Evap. Pond # 2       144         185       98       Evap. Pond # 2       145         186       98       Evap. Pond # 2       146         187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       153         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/29/92	-	Sand	
182       98       Evap. Pond # 2       142         183       98       Evap. Pond # 2       143         184       98       Evap. Pond # 2       144         185       98       Evap. Pond # 2       145         186       98       Evap. Pond # 2       146         187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       152         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158		-	Janu	S
183       98       Evap. Pond # 2       143         184       98       Evap. Pond # 2       144         185       98       Evap. Pond # 2       145         186       98       Evap. Pond # 2       146         187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       153         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/29/92		Sand	S
184       98       Evap. Pond # 2       144         185       98       Evap. Pond # 2       145         186       98       Evap. Pond # 2       146         187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       150         190       98       Evap. Pond # 2       151         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       153         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158		-	Sand	\$
185       98       Evap. Pond # 2       145         186       98       Evap. Pond # 2       146         187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       152         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/28/92	-	Sand	s
186       98       Evap. Pond # 2       146         187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       152         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/28/92	•	Sand	S
187       98       Evap. Pond # 2       147         188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       152         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/29/92	•	Sand	S
188       98       Evap. Pond # 2       148         189       98       Evap. Pond # 2       149         190       98       Evap. Pond # 2       150         191       98       Evap. Pond # 2       151         192       98       Evap. Pond # 2       152         193       98       Evap. Pond # 2       153         194       98       Evap. Pond # 2       154         195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/28/92	-	Sand	S
189     98     Evap. Pond # 2     149       190     98     Evap. Pond # 2     150       191     98     Evap. Pond # 2     151       192     98     Evap. Pond # 2     152       193     98     Evap. Pond # 2     153       194     98     Evap. Pond # 2     154       195     98     Evap. Pond # 2     155       196     98     Evap. Pond # 2     156       197     98     Evap. Pond # 2     157       198     98     Evap. Pond # 2     158	9/29/92	-	Sand	S
190 98 Evap. Pond # 2 150  191 98 Evap. Pond # 2 151  192 98 Evap. Pond # 2 152  193 98 Evap. Pond # 2 153  194 98 Evap. Pond # 2 154  195 98 Evap. Pond # 2 155  196 98 Evap. Pond # 2 156  197 98 Evap. Pond # 2 157  198 98 Evap. Pond # 2 157	9/29/92	•	Sand	S
191     98     Evap. Pond # 2     151       192     98     Evap. Pond # 2     152       193     98     Evap. Pond # 2     153       194     98     Evap. Pond # 2     154       195     98     Evap. Pond # 2     155       196     98     Evap. Pond # 2     156       197     98     Evap. Pond # 2     157       198     98     Evap. Pond # 2     158	9/28/92	•	Sand	S
192     98     Evap. Pond # 2     152       193     98     Evap. Pond # 2     153       194     98     Evap. Pond # 2     154       195     98     Evap. Pond # 2     155       196     98     Evap. Pond # 2     156       197     98     Evap. Pond # 2     157       198     98     Evap. Pond # 2     158	9/29/92	-	Sand	S
193     98     Evap. Pond # 2     153       194     98     Evap. Pond # 2     154       195     98     Evap. Pond # 2     155       196     98     Evap. Pond # 2     156       197     98     Evap. Pond # 2     157       198     98     Evap. Pond # 2     158	9/28/92	-	Sand	S
194     98     Evap. Pond # 2     154       195     98     Evap. Pond # 2     155       196     98     Evap. Pond # 2     156       197     98     Evap. Pond # 2     157       198     98     Evap. Pond # 2     158	9/29/92	-	Sand	S
195       98       Evap. Pond # 2       155         196       98       Evap. Pond # 2       156         197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/29/92	-	Sand	S
196     98     Evap. Pond # 2     156       197     98     Evap. Pond # 2     157       198     98     Evap. Pond # 2     158	9/28/92	•	Sand	S
197       98       Evap. Pond # 2       157         198       98       Evap. Pond # 2       158	9/28/92	-	Sand	S
198 98 Evap. Pond # 2 158	9/28/92	-	Sand	S
•	9/28/92	-	Sand	S
100 08 Fyan Pond # 2 150	9/28/92	•	Sand	S
199 90 Lvap. Folid # 2 109	9/28/92	-	Sand	S
200 98 Evap. Pond # 2 160	9/28/92	-	Sand	S
201 98 Evap. Pond # 2 161	9/28/92	-	Sand	S
202 98 Evap. Pond # 2 162	9/28/92	-	Sand	S
203 98 Evap. Pond # 2 163	9/29/92	-	Sand	S
204 98 Evap. Pond # 2 164	9/28/92	-	Sand	S
205 98 Evap. Pond # 2 165	9/28/92	-	Sand	S
206 98 Evap. Pond # 2 166	9/29/92	-	Sand	S
207 98 Evap. Pond # 2 167	9/28/92	-	Sand	S
208 98 Evap. Pond # 2 168	9/28/92	-	Sand	S
209 98 Evap. Pond # 2 169	9/28/92	-	Sand	S
210 98 Evap. Pond # 2 170	9/28/92	•	Sand	S
211 98 Evap. Pond # 2 171	9/28/92	-	Sand	S
212 98 Evap. Pond # 2 172	9/28/92	•	Sand	S
213 98 Evap. Pond # 2 173	9/28/92	-	Sand	S
214 98 Evap. Pond # 2 174	9/28/92	-	Sand	S

## ATTACHMENT G

Manifest for Empty 55-Gallon Drums Remaining after Disposal of Non-Hazardous Soil at Site 12 (Inactive Landfills)

THIS MEMORANDUM is an acknowledgement that a bit of lading has been issued and is not or duplicate, covering the property named herein, and is intended and	of the Original Bill of Lading, not a copy saly for filing or record.  Shipper's No. 75801
(Carrier) LOVEK THAY DORATION SCAN	C Carrier's No
at IMETIALA ARMY DEPOT -data	11-27-96 from PHILIP ENVIRO.
the property described below, in apparent good order, except as noted (contents and condition of contents of packages unle contract as maximize any person or corporation in possession of the property under the contenct) agrees to carry to its usual destination. It is musually agreed, as to each certain of all or any of said property over all or any portion of said must be deal subject to all the conditions not prohibited by law, whether printed or written, haven contained (as specified in Appendix 8 to P	nown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout the place of delivery at said destined on, if on its own road or its own water first, otherwise to deliver to another carrier on the route to so-instition, and as to each party at any time interested in all or any of seed property, that every service to be performed hereunder shall be fart (1005) which are hearthy around to by the actions and another carriers by hitmail and his service.
Mail or street address of consignee for purposes of notice ation only.)  Consignee AMERICAN TAINCR Street Destination Zip  Route:	FROM: PHILIP ENVIRONMENTAL Shipper MATILLA ARMY DEPOT \ Street Origin Zip
Delivering Carrier: Lovek	Trailer Initial U.S. DOT Hazmet
	Hazard I.D. Packing Weight Class or Labels required Che (subject to correction)
1 FORKLIFT	tatus Symman univaded
214 CILLY 556 O.T. PRUMY	
· .	
Remit C.O.D. to: Address: City: State: Zip:	Subject to Section 7 of conditions, if this stripment is to be delivered to the consignor, the consignor shall sign the following statement:  Stripment without payment of things and the consignor of this stripment without payment of this stripment without payment of things and consignor of this stripment without payment of things and the consignor of this stripment without payment of things and the consignor of this stripment without payment of things and the consignor of this stripment without payment of things and the consignor of the consign
"If the eleptoral moves between two ports by a current by water, the two requires that the bill of incling shed state whether it in "capital's or shipper's weight".  Note, — where the rate is departed on value, shippers are required to state specifically in waiting the agreed or disclaved value of the property as heavily.  The agreed or disclaved value of the property as heavily specifically stated by the shippers to be not exceeding	Charges Advanced  \$
This is to certify that the above-names materials are properly classified, described, pschaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.  Per Proper Condition of the Department PLACARDS REQUIRED	Trepaid Collect
SHIPPER: DATE:	CARRIER:  PER:  EMERGENCY RESPONSE TELEPHONE NUMBER: ( )
Permanent post office address of shipper	Montored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.6 9-BLS-A3 (Rev. 7/

المنتفعات المستعام

ATTACHMENT H
Inventory of Solid Waste Disposed of Off Post

Item Description	Quantity	<u>Location</u>
Possibly Contaminated Equipment	300 ft	Duilding 411
Polyethylene pipe #200	160 ft	Building 411
PVC pipe 1-inch	840 ft	Building 411 Building 411
PVC pipe 2-inch		•
PVC pipe 2-inch	500 ft	Building 411
PVC pipe 4-inch	500 ft	Building 411
Polyethylene pipe	100 yd³	Building 411
Alarm Float Assembly with cords	1	Building 411
PVC 1 1/4" schedule 40 conduit	1000 ft	Building 411
PVC 2" D-B light wall conduit	1000 ft	Building 411
Flow Meter, 1 1/2" Badger (Totalizer)	6	Building 411
Garden hose	40 ft	Building 411
Pumps		
Tuthill, manual piston for 55gal drums	1	Building 411
Fairbanks Morse LSP150 1.5HP	1	Building 411
Fairbanks Morse LSP150 1.5HP	1	Building 411
manometer & gate valve		<b>-</b>
Myers QP20 2HP w/ manometer and gate valve	1	Building 411
Myers QP30 3HP w/manometer and	1	Building 411
gate valve		J
<u>Tanks</u>		
Poly, 1,000 gal	6	Building 411
Poly, 250 gal	2	Building 411
Poly, 750 gal	4	Building 411
Poly, 300 gal	2	Building 203
Cooler, Rubbermaid Mini	3	Building 203
Hose, 2" reinforced	15 ft	Building 203
flexible w/snap on fittings		_
Stainless Steel bowls	11	Building 203
Stainless Steel spoons	5	Building 203
Chlorine (bleach?) solution container,	1	Building 203
5 gal, empty		J
Clean Equipment		
Cable, Aircraft 3/16"	160 ft	Building 411
Cable, Aircraft 3/16"	100 ft	Building 411
Cord, 14-3 Type SOW	100 ft	Building 411
Cord, 14-3 Type SOW	100 ft	Building 411
Cord, 14-3 Type SOW	80 ft	Building 411
Disconnect and Junction Box with Post	2	Building 411
Disconnects (2) and Junction	1	Building 411
Box with Post	·	_ <del></del>

Item Description	Quantity	Location
Fittings, Miscellaneous Galvanized		
Nipple, 1 1/2", threaded m/m	2	Building 411
Nipple, 2", threaded m/m	2	Building 411
Various couplers		Building 411
Fittings, Miscellaneous PVC		
Adapter, 1 1/2", glue to thread, f/f	2	Building 411
Couplers, 1 1/2"	4	Building 411
Couplers, 2"	1	Building 411
Cross, 1 1/2"	2	Building 411
Elbows, 1 1/2"	6	Building 411
Elbows, 1 1/2", threaded	1	Building 411
Elbows, 2"	?	Building 411
Nipple, 1 1/2", threaded, m/m	2	Building 411
Nipple, 1 1/4", threaded, m/m	1	Building 411
Reducers, 1 1/4"x3/4"	5	Building 411
Reducers, 2"x1 1/2"	1	Building 411
Reducers, 3"x2"	1	Building 411
Tees, 1 1/2"	10	Building 411
Tees, 1 1/2", threaded	1	Building 411
Tees, 1 1/2"x1 1/2"x 1 1/4"	1	Building 411
Tees, 2"	1	Building 411
Tees, 2"x2"x1 1/4"	3	Building 411
Unions, 1 1/2"	3	Building 411
Unions, 2"	3	Building 411
Lights, Explosion-proof, with	2	Building 411
Upright 150 watts		
Lights, Explosion-proof, with	2	Building 411
Upright and Pedestal, 150 watts		
Load Center with Post, 125 amp	1	Building 411
Manometers, 100 psi	1	Building 411
Manometers, 30 psi	3	Building 411
Rods, Grounding 3/4"x30"	6	Building 411
Steel Roadway Driveover	1	Building 411
Switch, Transfer Safety,	1	Building 411
200amp		J
Valves, Ball, 2"	3	Building 411
Valves, Gate 1 1/2"	10	Building 411
Valves, Gate 2"	5	Building 411
Wire, #2 RHW 3 Conductor	1000 ft	Building 411
with #6 Ground		<b>y</b>
Wire, #6-4 Aluminum	160 ft	Building 411
Wire, #6-4 RHW Aluminum	1000 ft	Building 411
		•

Item Description	Quantity	Location
Drillers Supplies:	1	Duilding 444
Bentonite, Grout, 50lb Sack	13	Building 411 Building 411
Bentonite, Mud Gel, 50lb Sack Bentonite, Pds. Co., 50lb Sack	2	Building 411
Bolts, 5/8"x4" Galvanized	12	Building 411
Buckets, 5 Gallon Plastic,	4	Building 411
(Used and Empty)	7	building 471
Casing, Steel 8"x10feet	1	Building 411
Casing, Steel 8"x20feet	4	Building 412
Concrete Mix, Lonestar 90lb Sack	16	Building 411
(some already hardened)	.0	Danaing
Cover, 4" PVC Pipe	3	Building 411
Covers, 6" Rubber Riser (Used)	5	Building 411
Nuts, 5/8" Galvanized	100	Building 411
Paint, Industrial Enamel	2	Building 411
Orange, 1 Gallon	_	· · · · · · · · · · · · · · · · ·
Primer, Industrial Enamel, 1 Gallon	1	Building 411
Sand, Silica 100lb Sack	7	Building 411
Sealing Agent, Peltonite 5	5	•
Gallon Bucket		
Sheeting, Polyurethane (dark grey)	1 roll	Building 411
Hydraulic Oil from air compressor on	0.5 gal	Building 411
drill rig (milk jug)		
<u>General</u>		
Answering Machine	1	Building 203
Bag, Plastic, 39"x33", Med. Duty	125	Building 203
Bailer, Disposable	1	Building 203
Bailers, 3" PVC, New, 3 Feet	4	Building 203
Band-It Band, 3/8"x0.027"	100 ft	Building 203
(steel banding mat'l)		
Band-It Ties (metal clips)	75	Building 203
Batteries, Deep Cycle 12 volt	3	Building 203
Bottles, Cube, Clear Plastic	177	Building 203
Bottles, Plastic, 1 Quart, Clear and Round	336	Building 203
Bottles, Plastic, Clear Round 50ml	105	Building 203
Bottles, Plastic, Clear Round 8oz	10	Building 203
Broom, Kitchen	1	Building 203
Broom, Push	1	Building 203
Buckets, 5 Gallon Plastic	16	Building 203
Capsule, Gelman Sciences	10	Building 203
Groundwater Sampling		
Capsule, Water Filter/Sampling	30	Building 203
Chairs, Plastic	4	Building 203
Chairs, Rolling Desk	3	Building 203
Coffee Maker, Braun Automatic	1	Building 203

Item Description	Quantity	Location
Concrete Screw Nails, 2.5"	60	Building 203
Coveralls, Non-porous, White	50	Building 203
Drums, 55 Gallon, for Trash	5	Building 203
Dust Pan	1	Building 203
Ear Plugs, 3M #100	100 pair	Building 203
Envelopes, 8"x11"	15	Building 203
Fishing Line, Trilene 50lb Test	400 yd	Building 203
Gas Cans, Galvanized 5 Gallons	1	Building 203
Gas Cans, Rubbermaid 2.5 Gallons	1	Building 203
Gloves: Derma Thin Examination, 5mil, Green	200	Building 203
Gloves: Dura-Touch Vinyl, XL, Green	400	Building 203
Gloves: Edmont Solvex, Size 11	19 doz	Building 203
Gloves: Edmont Solvent, Size 9-9 1/2	25 doz	Building 203
Gloves: Examination, Clear	200	Building 203
Jar, Amber Bottle, 0.125	192	Building 203
Septa-Liner, 60ml		
Jar, Amber, Teflon Lined Closure for	58	Building 203
Semi Volatiles, Metals, etc. 16oz		
Jar, Amber, Teflon Lined Closure for	60	Building 203
Semi Volatiles, Metals, etc. 8oz		
Jar, Septa Bottle Flint Amber, 250ml	7	Building 203
Jars, Amber, Teflon Closure, 60ml	291	Building 203
Jars, Wide-Mouth Amber Packers w/	1560	Building 203
Closed Tops & Teflon Capliners, 32oz		
Jars, Wide-Mouth Amber, 32oz	47	Building 203
Jugs, Amber 4 I	56	Building 203
Light Bulbs, 200 Watts	4	Building 203
Over-jar for Chemicals, Plastic, 4 I	1	Building 203
Paper Towels, roll	15	Building 203
Permatape, 5" wide, partial roll	1	Building 203
Pick, Miner's	1	Building 203
Pipe, Black 1/2" Poly, 125 psi,	20 rolls	Building 203
100 feet/roll		
Pitch Fork	1	Building 203
Putty Knife	1	Building 203
Respirator Cartridges, MSA: Comb.	8	Building 203
Organic Vapor, Dust		
Respirator Cartridges, North: Comb.	4	Building 203
Organic Vapor, Chlorine etc.	_	
Respirator Cartridges, North: Comb.	2	Building 203
Organic Vapor, Dust etc.		
Respirator, 3M Dust and Mist	20	Building 203
Rope, Leigh Braided Nylon, 3/16" x 475ft	17	Building 203
Rubber Bands	1100	Building 203
Safety Glasses, Clear	6	Building 203
Safety Glasses, Dark	10	Building 203

Item Description Sheeting, Polyurethane, Clear	Quantity 1 roll	<b>Location</b> Building 203
Split Spoon Sampler w/o Shoe	1	Building 203
Split Spoon Sampler w/ Shoe	2	Building 203
Sprayer, Garden, 2 gallons	1	Building 203
Storage Boxes, Plastic with	5	Building 203
Interlocking Lids	J	building 200
Surveyor's Flags	30	Building 203
Surveyor's Ribbon, Blue and White	1	Building 203
Striped, partial roll	·	•
Surveyor's Ribbon, Green, partial roll	1	Building 203
Surveyor's Ribbon, Pink, partial roll	1	Building 203
Surveyor's Ribbon, Yellow, partial roll	1	Building 203
Tables, Folding	3	Building 203
Tape Dispenser	1	Building 203
Tape, Leitz-Eslon Fiberglass, 300 feet	1	Building 203
Telephones	2	Building 203
Tins Empty	13	Building 203
Tongs, Ekco	5	Building 203
Tool Box, Empty	1	Building 203
Trip Blanks for VOA Tins	12	Building 203
Tube, Connectors 3/8"	12	Building 203
Tubing, MasterFlex Silicone 25ft/Box	7 boxes	Building 203
Tubing, T-194 Polyurethane, 3/8" ODx .0625 wall	200 ft	Building 203
Tubing, Tygon Plastic 3/8"	10 ft	Building 203
VOA Tins with 4 Bottles/Tin	30	Building 203
Wastebasket, Rubbermaid 20 quart	2	Building 203
Water Dispenser, Plastic, 5 Gallon	5	Building 203
Water, Distilled	174 gal	Building 203
Field Lab Supplies		
Amber Borosilicate Vial, 40ml	500	Building 203
Brushes, Cleaning, for Glass Ware	5	Building 203
Cuvette Rack	1	Building 203
Eyewash, Bel-Art Production, ~750 ml	4	Building 203
Graduated Cylinders, Glass, 100ml	5	Building 203
Graduated Cylinders, Glass, 10ml	3	Building 203
Graduated, Cylinders, Glass, 500ml	1	Building 203
pH Probe/Electrode, Cole-Palmer	2	Building 203
Pipets, Glass & Disposable	500	Building 203
Pipets, Glass & Disposable, 25ml	100	Building 203
Pipets, Glass, 5ml	1000	Building 203
Pipets, Pasteur	500	Building 203
Solid Phase Extraction Cartridges: Haysep-R 6ml Tubes, 1g	150	Building 203
Solvent Wash Storage Container, Plastic 5 Gallons (empty)	1	Building 203

Item Description	Quantity	<b>Location</b>	
Stoppers, Rubber	100	Building 203	
Supelco Solid Phase Extraction	1	Building 203	
Vacuum Manifold			
Syringe, Plastic, 10ml	50	Building 203	
Syringe, Plastic, 60ml	30	Building 203	
UV/VIS Cuvettes, Plastic	500	Building 203	
Volumetric Flasks, Glass, 100ml	3	Building 203	
Volumetric Flasks, Glass, 50ml	1	Building 203	
Wash Bottles, (nalgene, 500ml), Used	10	Building 203	
Wash Bottles, 500ml	6	Building 203	
Whatman Absorbent Protector,	1 reel	Building 203	
46cm x 50m			

## ATTACHMENT I

List of Materials Remaining On Site for Use During Remediation of Site 4 (Explosive Washout Lagoons) 111

96007/RP

IDENTIFICATION OF GOVERNMENT-FURNISHED PROPERTY (APR 1984) (FAR 52.245-3): The Government will furnish to the Contractor the property identified in the schedule to be incorporated or installed into the work or used in performing the contract. The listed property will be furnished f.o.b. railroad cars at the place specified in the contract schedule or f.o.b. truck at the project site. The Contractor is required to accept delivery, pay any demurage or detention charges, and unload and transport the property to the jobsite at its own expense. When the property is delivered, the Contractor shall verify its quantity and condition and acknowledge receipt in writing to the Contracting Officer. The Contractor shall also report in writing to the Contracting Officer within 24 hours of delivery any damage to or shortage of the property as received. All such property shall be installed or incorporated into the work at the expense of the Contractor, unless otherwise indicated in this contract. (The listed property will be furnished to the Contractor at the place designated by the Contracting Officer.)

#### SCHEDULE

QUANTITY	ITEM	DESCRIPTION
		Granular Activated Carbon (GAC) Treatment Vessel
1	1A 1B	447 LB carbon 1,000 LB carbon
1	2A	680 LB carbon
1	2B 3a	1,000 LB carbon 680 LB carbon
1	38	1,000 LB carbon 5-foot (ft) Diameter by 6-ft Height Vertical
•	<i>;</i>	Storage Polyethylene Tank 6-ft Diameter by 7-ft Haight Vertical Storage
1	•	Polyethylene Tank
1		6-ft Diameter by 8-ft Height Vertical Storage Second Polyethylene Tank

This property has been dedicated for use by revication for during confaminant lemedon from of the Westernt Plant (Bldg 469). I this property!

Do not dispose of this property!

## ATTACHMENT J

Weight Tickets for Solid Waste Disposed of Off Post



## RABANCO REGIONAL DISPOSAL CO.

P.O. Box 338 Roosevelt, WA 99356 (509) 384-5641



ICKET NUMBER

264084

\*\*\* COMPLETED WEISHT TICKET \*\*\*

TRUCK ID: 735 Peterbilt-Red-Ross

ACCOUNT: 12811 Philip Environmental

COMMODITY: 30 CDL SOURCE: Usatilla, OR

JOB ID:

COMMENTS:

CONTAINER #: RABU 488225, 1

CUSTOMER TICKET #: 042604

CUSTOMER WEIGHT:

& LBS

IN: 🐬

OUT:

WEIGHT 51888 LBS 42440 LBS TIME: 14:55

DATE 08/12/96 14:56 08/12/96

NET WEIGHT:

9440 LBS /

4.720 TONS

Weighwaster - TONI

Driver

CORPORATE COPY

I HAVE READ AND AGREE TO THE CONDITIONS ON THE REVERSE SIDE.



#### RABANCO REGIONAL DISPOSAL CO.

P.C. Box 338 Roosevelt, WA 99356 (509) 384-5641



ICKET NUMBER .....

264690

\*\*\* COMPLETED WEIGHT, TICKET \*\*\*

TRUCK ID: 735 Peterbilt-Red-Ross

- a - 14 1 . 11 1

ACCOUNT: 12811 Philip Environmental

COMMODITY: 30 CDL BOURCE: Umatilla, OR

JOB ID:

CONTAINER #: RABU 480312,

CUSTOMER TICKET #: 042739 / COMMENTS:

CUSTOMER WEIGHT:

@ LBS

IN: : TUC

WEIGHT 52240 LBS 42320 LBS

TIME 07:32 07:58

- DATE 08/16/96 28/16/56

NET WEIGHT:

9920 LBS /

4.960 TONS

PORPORATE COPY !

TO

14108595202

P.03

AUG-16-1996 WS:52

**100070001** 

#+**0**4 PAGE: 1

08/16/96 08:50-25

413SC

REGIONAL DISPOSAL COMPARY RECAP OF WEIGHT TICKETS

ACCOUNT: Philip Environmental

NET NET DATE DE/12/56 JOB COOE CONTAINER POUNDS TORS TYPE **GROSS** TARE 2.64064 14\*55 735 RABU (80226 CDL ---\$1880 42440 9440 4.720 9440 4,720 1.720 9440 TOTAL FOR: 08/12/96 DATE: 08/16/96 ' \$1508F UBAR 264890 07:32 735 52240 42320 9920 4.960 COL 7970 4.960 9920 4.960 TOTAL FOR: 08/16/96 9.680 TOTALS FOR: Philip Environmental 19360 \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* REPORT TOTALS: 19360 9.680

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